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Dinion
DIGITAL CCTV CAMERA

LTC 0435 & LTC 0455 SERIES COLOR CAMERAS

INSTALLATION
INSTRUCTIONS

EN
FR
DE
ES
NL
IT
PT
ZH

Philips
Communication,
Security & Imaging

PHILIPS

IMPORTANT SAFETY INSTRUCTIONS

CAUTION

RISK OF ELECTRIC SHOCK, DO NOT OPEN!

The lighting flash with arrowhead sysbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk to persons.

The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance accompanying the appliance.

1. Read these instructions
2. Keep these instructions.
3. Heed all Warnings.
4. Follow all instructions.
5. Do not use the apparatus near water.
6. Clean with a dry cloth only.
7. Do not install near heat sources such as radiators, heat registers, stoves, or other apparatus that generates heat (including amplifiers).
8. Do not defeat the purpose of a polarized or grounded mains plug. A polarized plug has dissimilar prongs (one wider than the other) to ensure correct polarity, while a grounded plug has an additional 'ground' prong provided for your safety. If the plug supplied with the apparatus does not fit into your outlet, consult an electrician for advice.
9. Protect the power-supply cord from being walked on or pinched, particularly close to plugs, receptacles and the point where it exits from the apparatus.
10. Only use attachments and accessories (including stands, tripods, mounting brackets and housings) specified or recommended by the manufacturer.
11. Unplug the apparatus during lightning storms and when unused for extended periods.
12. Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
13. Servicing is required when the apparatus does not function in the normal way, has been dropped, if liquid has been spilled on it, or if it has been exposed to rain or water. Unplug the unit from the outlet and refer servicing to qualified service personnel.
14. An all-pole mains switch with contact separation of at least 3 mm in each pole shall be incorporated in the electrical installation of the building.

Warning

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

FCC Information

Caution: Any changes or modifications to construction of this device that are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

SPECIFICATIONS

	LTC 0435/x0		LTC 0455/x0	
	Standard resolution		High resolution	
Standard	PAL	NTSC	PAL	NTSC
Active pixels (H x V)	512 x 582	512 x 492	752 x 492	768 x 492
Imager	1/3" interline CCD			
Resolution	330 TV lines		480 TV lines	
Minimum illumination	<0.7 lux		<0.8 lux	
			<0.3 lux with Nightsense™	
Signal-to-noise ratio	> 50 dB			
Video output	1 Vpp, 75 Ω			
Y/C output	NA		Y: 1 Vpp, 75 Ω; C: 0.3 Vpp 75 Ω	
Synchronization	Internal or Line-Lock (selectable)			
Shutter	Auto / Flickerless / Off (selectable) PAL: 1/50 - 1/125000 - NTSC: 1/60 - 1/150000			
Nightsense™	NA		Auto / Forced / Off (selectable)	
Autoblack	On / Off (selectable)			
AGC	On (0-21 dB)/ Off (0 dB) (selectable)			
BLC	On / Off (selectable)			
ATW	Auto/Hold selectable 2500 to 9000 K			
Lens mount	C and CS compatible			
ALC	Video-iris or DC-iris (auto detect)			
Power supply	LTC 04x5/10 & /20: 12 to 28 VAC or 11 to 36 VDC LTC 04x5/50 & /60: 85 to 265 VAC			
Power consumption	<4 W			
Dimensions (HxWxL)	58 x 66 x 122 mm (2.28 x 2.6 x 4.8 inch without lens)			
Weight	450 g (0.99 lbs) (without lens)			
Camera mount	Two 1/4" 20 UNC - isolated (bottom) and non-isolated (top)			
Operating temperature	-20°C to +50°C (-4°F to +122°F)			
Controls	On-screen display (OSD) with softkey controls			

Type number overview

	Low voltage		High voltage	
	PAL (Europe)	NTSC (USA)	PAL (Europe)	NTSC (USA)
Standard resolution	LTC 0435/10	LTC 0435/20	LTC 0435/50	LTC 0435/60
High resolution	LTC 0455/10	LTC 0455/20	LTC 0455/50	LTC 0455/60

English

UNPACKING

Unpack carefully and handle the equipment with care. The packaging contains:

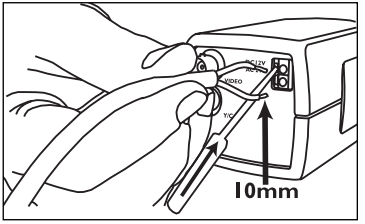
- Camera
- CCD protection cap
- Spare lens connector (male)
- These Instructions

Note: If equipment appears to have been damaged during shipment, repack it in the original packaging and notify the shipping agent or supplier.

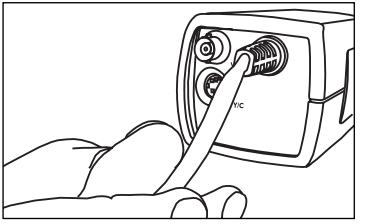
CONNECTION

Power

LTC 04x5/10 and /20

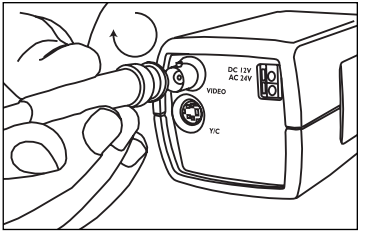


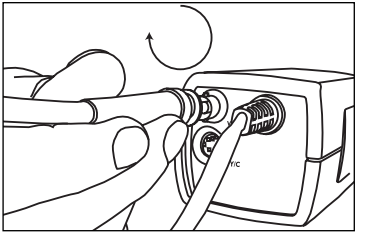
LTC 04x5/50 and /60



To open the quick-connect, push in on the tabs.
Connections are not polarity sensitive
Use stranded or solid wire AWG16 to AWG22, cut back 10mm (0.4") of insulation.

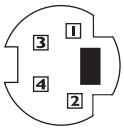
Composite Video

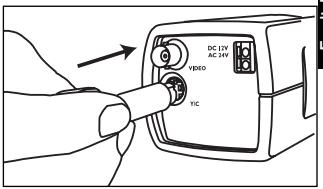




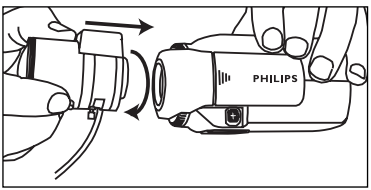
Y/C output (LTC 0455/x0 only)

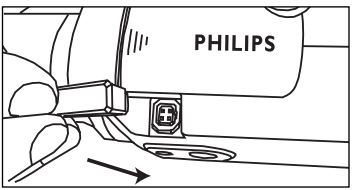
Pin	Y/C Socket
1	GND Y
2	GND C
3	Y
4	C



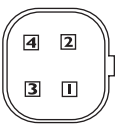


LENS MOUNTING





Pin	Video iris lens	DC iris lens
1	Supply (11 V, 50 mA max.)	Damp-
2	Not used	Damp+
3	Video signal 1 Vpp, 1 kΩ	Drive+
4	Ground	Drive-



- Video-iris and DC-iris lenses are recommended for the best picture performance.
- The camera automatically detects the type of lens used, and optimizes performance accordingly.
- A spare male lens connector is provided if required.

Cautions:

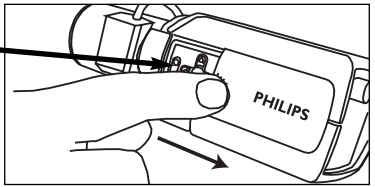
- To avoid damaging the CCD sensor when using a C-mount lens, turn the 'green' back-focus ring counter clockwise until it stops ('Back focus adjustment') before mounting the lens.
- Lenses weighing more than 0.5 kg (1.1lbs) must be separately supported.

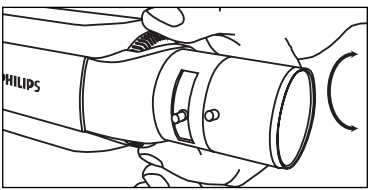
Note: If a short circuit is detected on the lens connector, the on-screen display (OSD) failure message 'LENS SHORT CIRCUIT' is shown. The lens circuit is automatically disabled to avoid internal damage. Remove the lens connector and check the pin connections.

Back focus adjustment

- Camera accepts both C and CS-mount lenses.

1. Unlock the back focus locking button.
2. Turn the back focus adjustment as required. (See Note 1).
3. Lock the back focus locking button.





Notes:

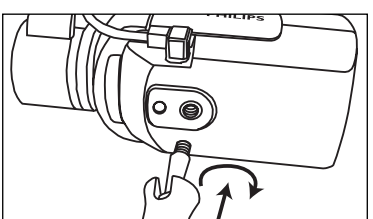
1. To optimize picture sharpness in both bright and low-level lighting, it is recommended to adjust the back focus when carrying out the set-up procedure. The camera's unique 'Lens Wizard' allows focusing at maximum lens opening to ensure that the object of interest always remains in focus.
2. When back focusing vari-focus lenses, it must be possible to obtain a sharp picture in both wide-angle and tele positions, and for both far and near focus.
3. When back focusing zoom lenses, ensure the object of interest remains in focus throughout the entire zoom range of the lens. (See Advanced Set up).

Caution: Do not point the camera/lens into direct sunlight. When viewing an outdoor scene, a video- or DC-iris lens is recommended.

MOUNTING THE CAMERA

The camera can be mounted from the top or bottom.

Note: The BOTTOM mounting is isolated from ground.

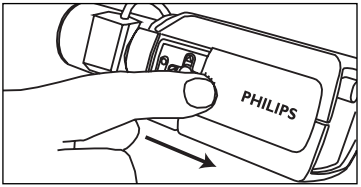


ADVANCED SET-UP

The camera will normally give an optimal picture without the need for further adjustments. However for special circumstances advanced set up options are available.

Accessing and navigating menus

- Five softkeys are used for navigating menus (located under the side panel).
- To access set-up menus, press the menu/select key.
- The main menu appears on the OSD.
-

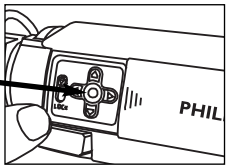


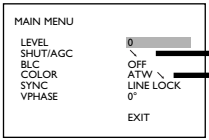
Key	Function
Menu button (O)	Access the menus, or move to next or previous menu.
← →	Toggle through options, set parameters
↑ ↓	Scroll up and down menu

Note: A downward-pointing arrow (↘) indicates a sub-menu follows.

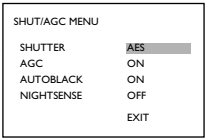
Menu Navigation

Press the menu button

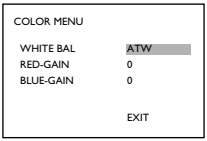




Main Menu

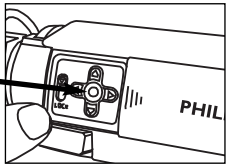


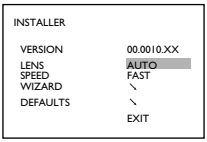
Shutter/AGC Menu



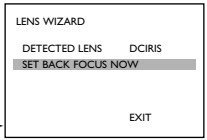
Color Menu

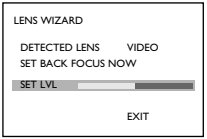
Press the menu button for more than 5sec.





Installer Menu





Lens Wizard Menus

Main menu

Function	Selection	Description
LEVEL	-15 - 0 - +15	Adjusts video level.
SHUT/AGC	Select next menu	Shutter / Automatic Gain Control menu.
BLC	ON OFF	When 'ON', the level is optimized at the center of the screen. Parts outside the center may be under- or over-exposed (this is normal).
COLOR*	ATW ATB HOLD Select next menu	Select to access the color menu. (See Color menu for detailed explanation).
SYNC	LINE LOCK INTERNAL	Select 'LINE LOCK' to synchronize with the power supply frequency. Select 'INTERNAL' for use with internal synchronization (automatically selected with DC supply).
V PHASE	0-358°	Adjusts the vertical phase offset (when in 'LINE LOCK' mode).
EXIT		Exit the menu.

*Note: If the camera (LTC 0455/x0 only) is in black & white high sensitivity mode (via NightSense™), the color settings and color menu are not accessible. The NightSense™ sensitivity boost must be selected OFF to make color adjustments.

Shutter/AGC menu

Function	Selection	Description
SHUTTER	AES FL OFF	(AES) Auto-shutter sets the optimum shutter speed for manual iris lenses. (FL) Flickerless mode avoids interference from light sources (recommended for use with video-iris or DC-iris lenses only).
AGC	ON/OFF	Automatic gain control
AUTOBLACK	ON/OFF	Autoblack automatically increases the visibility of details.
NIGHTSENSE	AUTO FORCED OFF	Nightsense™* extends the low-light performance of the camera. AUTO mode, the camera automatically inches to monochrome in low-light conditions. In Forced mode, the picture remains a high-sensitivity monochrome image. Some active noise or white spots may appear in the picture.
EXIT		Exit this menu.

*Note: NightSense™ is only available on the LTC 0455/x0 cameras.

Color menu

Note: Auto Tracking White Balance must be selected OFF.

Function	Selection	Description
WHITE BAL	ATW AWB HOLD	ATW: Auto tracking white balance allows the camera to constantly adjust for optimal color reproduction. AWB HOLD: Puts the ATW on hold and saves the color settings.
RED- GAIN*	-5 - 0 - +5	Offset factory white point alignment (reducing red introduces more cyan).
BLUE- GAIN*	-5 - 0 - +5	Offset factory white point alignment (reducing blue introduces more yellow).
EXIT		Exit the menu.

*Note: For special scene conditions only, it will be necessary to change the white point offsets.

Accessing installer menu

- To access the installer menu, press and hold the menu/select key for five seconds.

Installer menu

Function	Selection	Description
VERSION		Read-only firmware release number (for service purposes).
LENS	AUTO	Automatically detect lens type. A different lens type can be selected.
SPEED	FAST	Selects the response time of DC-iris lenses. Some lenses require slow lens control to avoid overshoots.
WIZARD		Access the lens wizard menu.
DEFAULTS	Select next menu	Return all set-up settings to factory defaults.
EXIT		Exit the menu.

Lens wizard menu

Function	Description
SET BACK FOCUS NOW	Back focus the lens (see 'Back focus adjustment'). The scene is focused at maximum lens opening to ensure that the object of interest remains in focus in bright and low-light conditions.
SET LVL	When a Video-iris lens is detected, a level potentiometer is displayed to obtain the best picture performance. The lens wizard includes a level detector meter that must be set to the center using the potentiometer for best results.
EXIT	Exit the menu.

Adjustment procedure DC-iris Lens:

1. Unlock the back focus locking button.
2. Access the "Lens Wizard" menu.
3. The "SET BACK FOCUS NOW" option is highlighted in the menu.
4. Turn the back focus adjustment as required.
5. Lock the back focus locking button.
6. Exit the menu.

Adjustment procedure Manual-iris Lens:

1. Unlock the back focus locking button.
2. Adjust the lens to the maximum lens opening.
3. Turn the back focus adjustment as required.
4. Lock the back focus locking button.
5. Exit the menu.

Adjustment procedure Video-iris Lens:

1. Unlock the back focus locking button.
2. Access the "Lens Wizard" menu.
3. The "SET BACK FOCUS NOW" option is highlighted in the menu.
4. Turn the back focus adjustment as required.
5. Select the "SET LVL" option in the menu, and the LEVEL bar appears.
6. Adjust the level potentiometer located on the lens until the LEVEL bar is in the central position.
7. Lock the back focus locking button.
8. Exit the menu.

DATEN

	LTC 0435/x0		LTC 0455/x0	
	Standardauflösung		Hochauflösend	
Standard	PAL	NTSC	PAL	NTSC
Aktive Pixel (H x V)	512 x 582	512 x 492	752 x 492	768 x 492
Sensor 1/3"	Interline CCD			
Auflösung	330 Bildschirmzeilen		480 Bildschirmzeilen	
Minimale Beleuchtungsstärke	<0,7 Lux		<0,8 Lux <0,3 Lux mit Nightsense™	
Signal-/Rauschabstand	> 50 dB			
Videoausgang:	1 Vpp, 75 Ohm			
Y/C-Ausgang	---		Y: 1 Vpp, 75 Ohm C: 0,3 Vpp, 75 Ohm	
Synchronisation	Vertikalsynchronisation mit interner Frequenz oder Netzfrequenz (wählbar)			
Verschluss	Auto / Entzerrt / Aus (wählbar) PAL: 1/50 - 1/125000 - NTSC: 1/60 - 1/150000			
Nightsense™	---		Auto / Immer / Aus (wählbar)	
Autoblack	Ein / Aus (wählbar)			
AGC	Ein (0-21 dB)/ Aus (0 dB) (wählbar)			
BLC	Ein / Aus (wählbar)			
ATW	Automatische Helligkeitssteuerung 2500 bis 9000 K (im "Haltebetrieb")			
Objektivfassung	kompatibel mit C und CS			
ALC	videogesteuerte automatische Blendenregelung oder gleichstromgesteuerte Blende (auto detect)			
Stromversorgung	LTC 04x5/10 & /20: 12 bis 28 Volt Wechselspannung oder 11 bis 36 Volt Gleichspannung LTC 04x5/50 & /60: 85 bis 265 V Wechselspannung			
Stromaufnahme	<4 W			
Abmessungen (HxBxL)	58 x 66 x 122 mm (ohne Objektiv)			
Gewicht	450 g (ohne Objektiv)			
Stativqewinde	1/4" 20 UNC - isoliert (unten) und nicht isoliert (oben)			
Betriebstemperatur	-20°C bis +50°C			
Bedienelemente	Bildschirmanzeige (OSD) mit Kurzwahltasten			

Überblick über die Typen

	Kleinspannung		Netzspannung	
	PAL (Europa)	NTSC (USA)	PAL (Europa)	NTSC (USA)
Standardauflösung	LTC 0435/10	LTC 0435/20	LTC 0435/50	LTC 0435/60
Hochauflösend	LTC 0455/10	LTC 0455/20	LTC 0455/50	LTC 0455/60

AUSPACKEN

Vorsichtig auspacken und Gerät vorsichtig handhaben. Die Verpackung enthält:

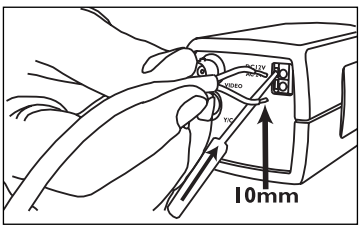
- Kamera
- CCD-Schutzkappe
- Ersatz-Objektivanschluss (Stecker)
- Diese Gebrauchsanweisung

Hinweis: Wenn ein Gegenstand beim Transport beschädigt worden zu sein scheint, verpacken Sie ihn wieder ordnungsgemäß im Originalkarton und benachrichtigen Sie den Spediteur.

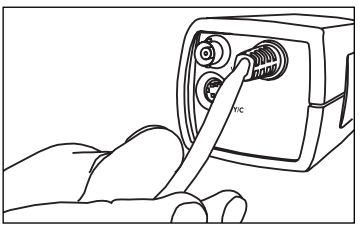
ANSCHLUSS

Stromversorgung

LTC 04x5/10 und /20

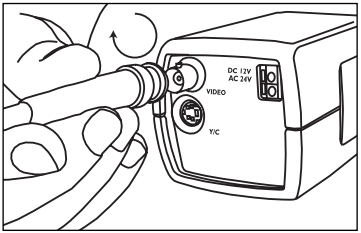


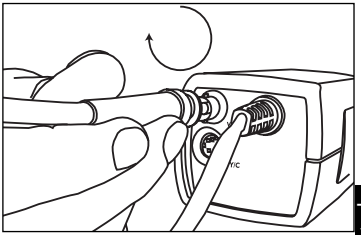
LTC 04x5/50 und /60



Klammern mit einem Schraubendreher aufdrücken. Anschlüsse sind nicht polaritäts-umkehrempfindlich. Litzen- oder Volldraht AWG16 bis AWG22 verwenden und 10 mm Isolierung entfernen.

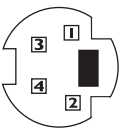
FBAS-Signal

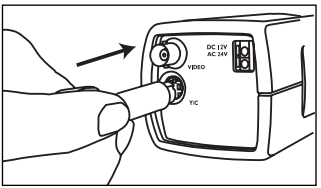




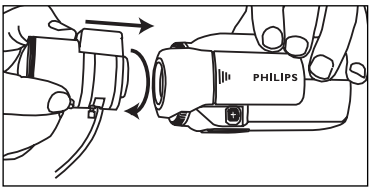
Y/C-Ausgang (nur LTC 0455/x0)

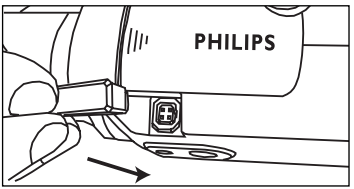
Pin	Y/C-Buchse
1	ERDE Y
2	ERDE C
3	Y
4	C



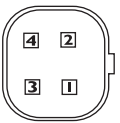


EINSETZEN DES OBJEKTIVS





Pin	Objektiv mit videogesteuerter automatischer Blendenregelung	Objektiv mit gleichstrom-gesteuerter Blende
1	Stromversorgung (11 V, 50 mA max.)	Dämpfung-
2	Nicht belegt	Dämpfung+
3	Videosignal 1 Vpp, 1 kOhm	Antrieb+
4	Erde	Antrieb-



- Zur Gewährleistung bestmöglicher Bildqualität werden Objektive mit videogesteuerter automatischer Blendenregelung oder mit gleichstromgesteuerter Blende empfohlen.
- Die Kamera stellt automatisch den verwendeten Objektivtyp fest und optimiert die Bildqualität entsprechend.
- Für den Bedarfsfall ist ein Ersatzstecker vorhanden.

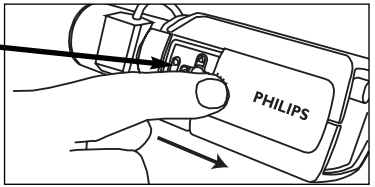
Vorsicht:

- Zur Vermeidung von Beschädigungen am CCD-Sensor bei Einsetzen eines Objektivs mit C-Fassung vor Einsetzen des Objektivs zunächst den 'grünen' Backfocus-Ring bis an den Anschlag gegen den Uhrzeigersinn drehen ("Backfocus-Justierung").
- Objektive mit einem Gewicht von mehr als 0,5 kg benötigen eine separate Stütze.

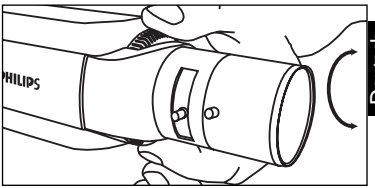
Hinweis: Wird am Objektivanschluss ein Kurzschluss festgestellt, so wird in der Anzeige (OSD) die Fehlermeldung 'LENS SHORT CIRCUIT' angezeigt. Der Stromkreis des Objektivs wird automatisch deaktiviert, um interne Beschädigungen zu vermeiden. Objektivanschluss entfernen und Pinbelegung überprüfen.

Backfocus-Justierung

- Die Kamera ist kompatibel mit Objektiven mit einer C-Fassung und einer CS-Fassung.



1. Backfocus-Sperrtaste entriegeln.
2. Backfocus-Justierung nach Bedarf drehen. (Siehe Hinweis 1).
3. Backfocus-Sperrtaste verriegeln.



Hinweise:

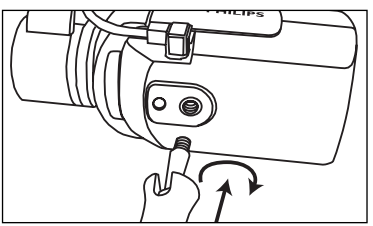
1. Zur Optimierung der Schärfe sowohl bei heller als auch bei schwacher Beleuchtung ist es empfehlenswert, den Backfocus bei der Einrichtung der Kamera zu justieren. Der einzigartige "Lens Wizard" dieser Kamera ermöglicht das Fokussieren bei maximaler Blendenöffnung, um sicherzustellen, dass das Objekt im Brennpunkt immer scharf bleibt.
2. Bei VarioFokalobjektiven ist der Backfocus so einzustellen, dass es möglich ist sowohl bei Weitwinkel- als auch bei Teleobjektiv-Einstellungen für nahe und entfernte Objekte ein scharfes Bild zu erzielen.
3. Bei Zoomobjektiven ist der Backfocus so einzustellen, dass das Objekt im Brennpunkt über den gesamten Zoombereich des Objektivs scharf bleibt. (Siehe "Manuelle Einrichtung").

Vorsicht: Kamera/Objektiv nicht direkt in die Sonne richten. Für Szenen im Freien sind Objektive mit videogesteuerter automatischer Blendenregelung oder mit gleichstromgesteuerter Blende zu empfehlen.

MONTAGE DER KAMERA

Die Kamera kann von oben oder von unten montiert werden.

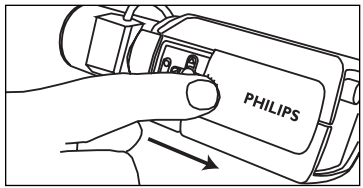
Hinweis: Die BODENKONSOLE ist vom Boden isoliert.



MANUELLE EINRICHTUNG

Im Normalfall liefert die Kamera ein optimales Bild, ohne dass weitere Einstellungen notwendig wären. Für besondere Umstände gibt es aber Optionen für die manuelle Einrichtung.

Zugriff auf und Navigation durch die Menüs



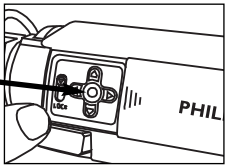
- Es gibt fünf Kurzwahltasten für die Navigation durch die Menüs (unter der Seitenabdeckung).
- Zum Zugriff auf das Einrichtungsmenü die Taste Menü/Auswahl drücken.
- In der Anzeige erscheint das Hauptmenü.

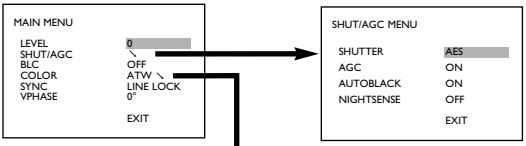
Taste	Funktion
Menütaste (O)	Zugriff auf die Menüs oder zurück zum vorherigen/weiter zum nächsten Menü.
← →	Blättern durch die Optionen, Einstellung von Parametern
↑ ↓	Auf- und Abblättern durch das Menü

Hinweis: Ein Pfeil nach unten (↘) deutet darauf hin, dass ein Untermenü folgt.?

Navigation durch die Menüs

Menütaste drücken



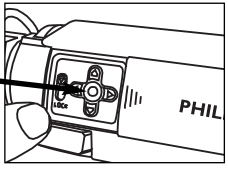


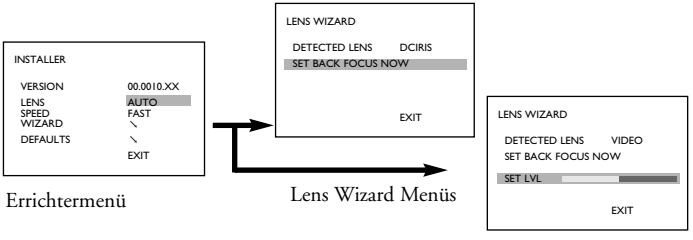
Hauptmenü

Shutter/AGC-Menü

Farbmenü

Menütaste länger als 5 Sek. drücken





Errichtermenü

Lens Wizard Menüs

Deutsch

Hauptmenü

Funktion	Auswahl	Beschreibung
LEVEL	-15 - 0 - +15	Stellt die Lichtstärke ein.
SHUT/AGC	Nächstes Menü auswählen	Menü Shutter / Automatische Verstärkungsregelung.
BLC	ON OFF	Bei "ON" wird die Lichtstärke im Zentrum des Bildschirms optimiert. Teile außerhalb des Zentrums können unter- oder überbelichtet sein (das ist normal).
COLOR*	ATW ATB HOLD Nächstes Menü auswählen	Auswählen, um auf das Farbmenü zuzugreifen. (Detaillierte Erläuterung unter "Farbmenü").
SYNC	LINE LOCK INTERNAL	"LINE LOCK" für Synchronisation mit der Frequenz des Versorgungsspannung. "INTERNAL" für Verwendung mit interner Synchronisation auswählen (wird automatisch gewählt, wenn Versorgungsspannung Gleichstrom ist)
V PHASE	0-358°	Justiert die vertikale Phasenverschiebung (in der Betriebsart "LINE LOCK").
EXIT		Menü beenden.

*Hinweis: Befindet sich die Kamera (nur LTC 0455/x0) in der hochsensiblen Schwarzweiß-Betriebsart (per NightSense™), so sind die Farbeinstellungen und das Farbmenü nicht verfügbar. Der Empfindlichkeitsverstärker NightSense™ muss AUS geschaltet sein, um Farbeinstellung vornehmen zu können.

Shutter/AGC-Menü

Funktion	Auswahl	Beschreibung
SHUTTER	AES FL OFF	(AES) Auto-Shutter stellt die optimale Verschlussgeschwindigkeit (entzerrt) für manuelle Objektivblenden ein. (FL) Die Betriebsart "entzerrt" vermeidet Interferenz bei Ausschaltung von Lichtquellen (nur für Verwendung mit Objektiven mit videogesteuerter automatischer Blendenregelung oder gleichstromgesteuerter Blende empfohlen).
AGC	ON/OFF	Automatische Verstärkungsregelung
AUTOBLACK	ON/OFF	Autoblack erhöht automatisch die Sichtbarkeit von Details.
NIGHTSENSE	AUTO FORCED OFF	Nightsense™* steigert die Leistung der Kamera bei wenig Licht. In der Betriebsart AUTO nähert sich die Kamera bei wenig Licht automatisch allmählich dem Monochrombetrieb an. In der Betriebsart FORCED bleibt die Kamera stets in einem hochempfindlichen Monochrommodus. Im Bild kann es zu einem gewissen Rauschen oder weißen Flecken kommen.
BEENDEN		Menü beenden.

*Hinweis: NightSense™ ist nur bei den Kameras LTC 0455/x0 verfügbar.

Farbmenü

Hinweis : Die automatische Helligkeitssteuerung muss AUS geschaltet sein.

Funktion	Auswahl	Beschreibung
WHITE BAL	ATW	ATW: Die automatische Helligkeitssteuerung ermöglicht es der Kamera, sich automatisch auf die optimale Farbwiedergabe einzustellen.
	AWB HOLD	AWB HOLD: Unterbricht ATW und bewahrt die Farbeinstellungen.
RED- GAIN*	-5 - 0 - +5	Verschiebung der fabrikmäßigen Weißpunkt-Voreinstellung (weniger Rot bedeutet mehr Cyan)
BLUE- GAIN*	-5 - 0 - +5	Verschiebung der fabrikmäßigen Weißpunkt-Voreinstellung (weniger Blau bedeutet mehr Gelb)
EXIT		Menü beenden.

*Hinweis: Nur bei ganz bestimmten Aufnahmebedingungen muss die Weißpunkt-Voreinstellung geändert werden.

Zugriff auf das Errichtermenü

- Zum Zugriff auf das Einrichtermenü die Taste Menü/Auswahl fünf Sekunden lang gedrückt halten.

Errichtermenü

Funktion	Auswahl	Beschreibung
VERSION		Schreibgeschützte Firmware mit der Release-Nummer (für Reparaturzwecke).
LENS	AUTO	Automatische Feststellung des Objektivtyps. Es ist möglich, einen anderen Objektivtyp auszuwählen.
SPEED	FAST	Wählt die Ansprechzeit von Objektiven mit videogesteuerter automatischer Blendenregelung. Manche Objektive erfordern eine langsame Objektivsteuerung, damit Übersteuerung vermieden wird.
WIZARD		Zugriff auf das Lens Wizard Menü.
DEFAULTS	Nächstes Menü auswählen	Zurücksetzen aller Einstellungen auf die fabrikmäßige Voreinstellung.
EXIT		Menü beenden.

Lens Wizard Menü

Funktion	Beschreibung
SET BACK FOCUS NOW	Backfocus-Justierung des Objektivs (siehe "Backfocus-Justierung"). Die Szene wird bei maximaler Blendenöffnung fokussiert, um sicherzustellen, dass das Objekt im Brennpunkt sowohl bei hellem als auch bei wenig Licht scharf bleibt.
SET LVL	Wird ein Objektiv mit videogesteuerter automatischer Blendenregelung festgestellt, so wird ein Lichtstärken-Potentiometer angezeigt, um die beste Bildqualität zu erzielen. Zum Lens Wizard gehört ein Lichtstärken-Messer, der mit Hilfe des Potentiometers auf das Zentrum gerichtet sein muss, damit optimale Ergebnisse erzielt werden.
EXIT	Menü beenden.

Einstellung eines Objektivs mit gleichstromgesteuerter Blende:

1. Backfocus-Sperrtaste entriegeln.
2. Auf das Lens Wizard Menü zugreifen.
3. Im Menü ist die Option „SET BACK FOCUS NOW“ markiert.
4. Backfocus-Justierung nach Bedarf drehen.
5. Backfocus-Sperrtaste verriegeln.
6. Menü beenden.

Einstellung eines Objektivs mit manueller Blende:

1. Backfocus-Sperrtaste entriegeln.
2. Objektiv auf maximale Blendenöffnung einstellen.
3. Backfocus-Justierung nach Bedarf drehen.
4. Backfocus-Sperrtaste verriegeln.
5. Menü beenden.

Einstellung eines Objektivs mit videogesteuerter automatischer Blendenregelung:

1. Backfocus-Sperrtaste entriegeln.
2. Auf das Lens Wizard Menü zugreifen.
3. Im Menü ist die Option „SET BACK FOCUS NOW“ markiert.
4. Backfocus-Justierung nach Bedarf drehen.
5. Option „SET LEVEL“ im Menü auswählen; es erscheint der LEVEL-Anzeigebalken.
6. Das am Objektiv angebrachte Lichtstärken-Potentiometer justieren, so dass der LEVEL-Anzeigebalken sich in Mittelstellung befindet.
7. Backfocus-Sperrtaste verriegeln.
8. Menü beenden.

PHILIPS DINION

- IMMER EIN EXZELLENTES BILD, AUCH BEI GERINGER BELEUCHTUNG
- NIGHTSENSE™, EIN NEUES VERFAHREN ZUR ANHEBUNG DER EMPFINDLICHKEIT
- LENS WIZARD SORGT FÜR PERFEKTE KOMPATIBILITÄT VON OBJEKTIV UND KAMERA
- SOFORT EINSATZBEREIT
- ATTRAKTIVES AUSSEHEN: UNAUFFÄLLIG UND DENNOCH ANSPRECHEND
- VERMITTELT EIN GUTES GEFÜHL – EINE ZUVERLÄSSIGE KAMERA VON EINEM EXPERTEN AUF DEM GEBIET DER CCTV- ÜBERWACHUNG, DAZU NOCH EINE DREIJÄHRIGE GEWÄHRLEISTUNG
- MINIMALER INSTALLATIONSAUFWAND – DADURCH WERDEN DIE INSTALLATIONSKOSTEN GESENKT UND DIE UNTERBRECHUNGSZEITEN ERHEBLICH VERKÜRZT

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KAMERAS UND ZUBEHÖR

STEUERUNGS-SYSTEME

DIGITALE RECORDER

AUTODOMES

MEISTER DER CCTV- ÜBERWACHUNG

Philips verfügt über langjährige Erfahrung auf dem Gebiet der Überwachungstechnik. Zusätzlich zu Dinion-Kameras bieten wir eine umfassende Auswahl an Farb- und Schwarz-/Weiss CCTV- Systemen und Zubehör sowie entsprechendes Anwendungs- Know- how. Das bedeutet, dass wir Ihnen die ideale Lösung für praktisch alle Überwachungsanforderungen liefern können, von einfachen Shop- Systemen bis zu umfangreichen Konfigurationen, die ganze Industriekomplexe abdecken. Darüber hinaus ist Philips führend bei der digitalen CCTV- Revolution.

UMFASSENDES SACHWISSEN

Die CCTV- Produkte sind nur ein Teil der Produktlinie von Philips Communication, Security & Imaging. Philips CSI ist ein führender Hersteller von Produkten und Systemen, die für die Sicherheit der Menschen und ihre Kommunikation miteinander sorgen. Das Sachwissen von Philips CSI deckt die Themen CCTV, Beschallungsanlagen, Personenruf- und Kongresssysteme ab und kann zu einer Steigerung der Geschäftseffizienz und einer Verbesserung der Lebensqualität auf der ganzen Welt beitragen.

SETZEN SIE SICH MIT UNS IN VERBINDUNG:

DER STANDARD FÜR INTELLIGENTE ÜBERWACHUNG

Dinion
DIGITAL CCTV CAMERA

Philips Communication, Security & Imaging

PHILIPS

Let's make things better.

PHILIPS

ERLEBEN SIE DINION, DEN STANDARD FÜR INTELLIGENTE ÜBERWACHUNG

Die intelligenten Überwachungskameras der Dinion™-Reihe basieren auf dem einzigartigen Sachwissen von Philips im Bereich der Funk-, Fernseh-, Video-, Halbleiter- und Bildverarbeitungstechnik und bieten eine bessere Bildleistung als jede andere Kamera dieser Klasse.

Die Kamerareihe, die um den leistungsstarken Philips Dinion Videoverarbeitungs- Chip herum aufgebaut ist, zeichnet sich durch hervorragende Funktionalität, Intelligenz und Bildverbesserungstechnologie in einem eleganten und dennoch unauffälligen Gehäuse aus. Die Kameras lassen sich sehr schnell installieren – so dass der normale Arbeitsablauf nur kürzeste Zeit unterbrochen wird – und sind unglaublich einfach zu bedienen.

Dinion, der Standard für intelligente Überwachung.

Perfektes Bild, selbst bei Gegenlicht

Perfektes Bild, ideal zum Erkennen und Identifizieren

Perfektes Bild, selbst unter schwierigen Beleuchtungsbedingungen

AUSGEZEICHNETE BILDQUALITÄT FÜR EINE BESSERE IDENTIFIZIERUNG

Die ausgezeichnete Bildqualität der Dinion-Kameras beruht auf mehreren Faktoren. Das revolutionäre Lens Wizard™ Verfahren gewährleistet eine perfekte Kompatibilität von Objektiv und Kamera, so dass unter allen Bedingungen ein optimales Bild möglich wird. Es unterstützt ausserdem die Einstellung des Auflagemasses und garantiert auch bei geringer Beleuchtung scharfe Bilder. "Auto Black" sorgt für einen optimalen Kontrast, auch bei Nebel oder wenn das Gehäusefenster beschlagen oder verschmutzt ist. Der breite Dynamikumfang erleichtert die Identifizierung von Details. Auch die treue Farbwiedergabe trägt zu einer sicheren Erkennung bei.

Gering beleuchteter Aussenbereich: Mit einer normalen Kamera erfasstes Bild

Gering beleuchteter Aussenbereich: **Erfassung mit NightSense™**

NIGHTSENSE™, WENN DIE SONNE UNTERGEGANGEN IST

Die hochauflösenden Farbmodelle der Dinion-Reihe sind mit NightSense ausgestattet. Diese Funktion nutzt die höhere Empfindlichkeit von Schwarz-/Weiss Bildern, um die Empfindlichkeit der Kamera um den Faktor 3 anzuheben. Wenn das Tageslicht schwächer wird, schaltet die Kamera automatisch auf Schwarz-/Weiss Betrieb um, damit wird die hervorragende Bildqualität aufrecht erhalten.

IM HANDUMDREHEN INSTALLIERT!

Die Installation von Dinion-Kameras ist so einfach, dass Ihr normaler Arbeitsablauf nur kürzeste Zeit unterbrochen wird. Es werden keinerlei Werkzeuge benötigt und die Kamera wird betriebsbereit geliefert. Sie braucht nur montiert und angeschlossen zu werden ... und ist anschließend sofort einsatzbereit, um Ihr Objekt zu schützen.

ATTRAKTIVES ERSCHEINUNGSBILD

Wie Sie sehen, wurde die Dinion- Kamera so gestaltet, dass Gehäuse und Objektiv nahtlos ineinander überzugehen scheinen, als ob die Kamera aus einem Stück besteht und nicht aus zwei Teilen zusammengesetzt ist. Diese Formgebung und die kompakten Abmessungen verleihen der Dinion- Kamera ein perfektes Aussehen: unauffällig und gleichzeitig ästhetisch ansprechend.

SIE HABEN DIE WAHL

Welche Anforderungen auch immer Sie auch stellen, es gibt immer eine passende Dinion-Kamera für Sie. Sie haben die Wahl zwischen Farb- und Schwarz-/Weiss Ausführungen, Modellen für Innen- oder für Aussenanwendungen und Kameras mit normaler oder mit hoher Auflösung

QUALITÄT - GARANTIERT

Philips ist einer der weltweit führenden Hersteller von Sicherheitssystemen. Alle unsere CCTV- Anlagen und natürlich auch die Dinion- Kameras wurden nach den höchsten internationalen Qualitätsstandards gefertigt. Ausserdem bekommen Sie volle drei Jahre Gewährleistung, ein kostenloses Ersatzprogramm und die kompetente Unterstützung von unserem weltweiten Service.

LTC 0435 Series

Color Cameras

Security Systems

- 1/3-inch Format CCD Imager
- High Sensitivity
- Advanced Digital Signal
- Processing
- Standard Resolution
- Auto Detection of Lens Type
- Easy to Install
- Accepts AC or DC Voltages

The LTC 0435 series are compact rugged, 1/3-inch image format digital color CCD cameras. Their superior sensitivity and resolution provide optimal performance in virtually all environments.

This fully automatic camera is ready to work for you, and is easy to install in even the most demanding applications. On- screen Displays (OSD) provide quick and easy access to all camera features.
The LTC 0435 cameras also comes with a lens wizard that automatically detects the type of lens installed and provides an OSD guide that allows the installer to easily adjust the lens level and focus without special tools or filters.
The automatic black level feature, now introduced in color cameras, enhances contrast by removing veiling glare from the picture.

The wide range of through the lens automatic sensing tracking white balance provides true to life color images for indoor and outdoor applications.

The ability to operate on AC or DC provides added flexibility to system designs and reduces the amount of training and support items to keep on-hand.

Easy Installation, digital signal processing, on screen displays, superior picture quality and reliability brings the video performance of standard resolution color cameras to a level never reached before and makes the LTC 0435 series the best choice for first time and professional users.

Bilinx Technology
The LTC0435 series cameras incorporate Bilinx. Bilinx is a bi-directional communication capability embedded in the video signal of all Bosch Dinion cameras. With Bilinx technicians can check status, change camera settings and even update firmware from virtually anywhere along the video cable. Bilinx reduces service and installation time, provides for more accurate set-up and adjustment, and improves overall performance. In addition, Bilinx uses the standard video cable to transmit alarm and status messages, providing superior performance without additional installation steps.

SPECIFICATIONS

Electrical

Model No.	Rated Voltage	Voltage Range	System
LTC 0435/10	12 VDC	10.8-39 VDC	PAL
	24 VAC, 50 Hz	12-28 VAC, 45-65 Hz	
LTC 0435/20	12 VDC	10.8-39 VDC	NTSC
	24 VAC, 60 Hz	12-28 VAC, 45-65 Hz	
LTC 0435/50	230 VAC, 50 Hz	85-265 VAC, 45-65 Hz	PAL
LTC 0435/60	120 VAC, 60 Hz	85-265 VAC, 45-65 Hz	NTSC

Power Consumption:	4 W, excluding lens.
Imager:	Interline transfer CCD, 1/3-inch image format.
Active Picture Elements:	
PAL Models:	500 H x 582 V.
NTSC Models:	510 H x 494 V.

Sensitivity (3200 k):

		Usable Picture (50 IRE)	Full Video
Scene illumination1)	fc	0.039	0.16
	lx	0.39	1.6
Imager illumination	fc	0.006	0.024
	lx	0.06	0.24

1) for f/1.2 lens, 89% scene reflectance.

Horizontal Resolution:	330 TVL.
Signal-to-noise Ratio:	50 dB.
AGC:	21 dB, (max).
Electronic Shutter:	
	Automatic, 1/50 to 1/125000 sec. (CCIR), 1/60 to 1/150000 sec. (EIA)
Aperture Correction:	Horizontal and vertical, symmetrical.
Backlight Compensation:	Center window weighting.
White Balance:	Automatic sensing (2500 - 9000 K).
Video Output:	Composite video 1.0 Vpp, 75 ohms.
Synchronization:	
Line-Lock:	(When powered by AC only) Synchronizes the camera to the power line zero crossing for roll-free vertical interval switching. Vertical phase delay can be adjusted (0 - 358 degrees) to allow vertical synchronization in multi-phase power installations
	Free Running (When DC-supply or L/L off): Internal crystal reference is standard on all models.

Controls	
	Video level.
	Shutter: AES/Off/Flickerless
	AGC: On/Off
	BLC: On/Off
	Auto Black: On/Off
	ATW: On/Hold
	R-offset
	B-offset
	Vphase Adjustment: 0 - 358 degrees

MECHANICAL

Connectors:	
- Video Output:	BNC.
- Video/DC-Iris connector:	4-pin EIA-J.
Power:	
	LTC 0435/10 and LTC 0435/20: push type connectors, polarity independent, isolated from video output terminals
	LTC 0435/50: 2-wire power cord with Euro plug
	LTC 0435/60: 2-wire power cord with polarized plug
Camera mounting:	Top and Bottom, 1/4-inch 20 UNC.
Lens mounting:	C and CS.
Dimensions:	(HxWxD*) 58 x 66 x 122 mm
	(2.28 x 2.6 x 4.8 inch). *including connectors.
Weight:	0.45 kg (0.99 lb).

ENVIRONMENTAL

Temperature range:	
Operating:	-20 to 50°C (-4 to 122 °F).
Storage:	-25 to 70°C (-13 to 158 °F).
Operating Humidity:	5% to 93% non-condensing.
Electromagnetic compatibility:	
EMC immunity:	According EN50130-4
EMC emission:	According EN505022 class B,
	According FCC, class B part 15
Safety:	
	LTC 0435/10 and LTC 0435/50: EN60065
	LTC 0435/20 and LTC 0435/60: UL6500
Accessories	
Lenses DC-Iris:	
LTC 3364/40:	2,8 - 12 mm, F1,4 - F360.
LTC 3374/20:	5 - 50 mm, F1,4 - F185.

Power Transformers and Power Supplies:

Model No.	Rated Input	Rated Output
TC1334	120 VAC, 60 Hz	24 VAC, 30 VA
TC120PS	120 VAC, 60 Hz	15 VDC, 9 VA
TC220PSX-24	220 - 240 VAC, 50/60 Hz	24 VAC, 20 VA
TC220PS	220 - 240 VAC, 50/60 Hz	15 VDC, 9 VA

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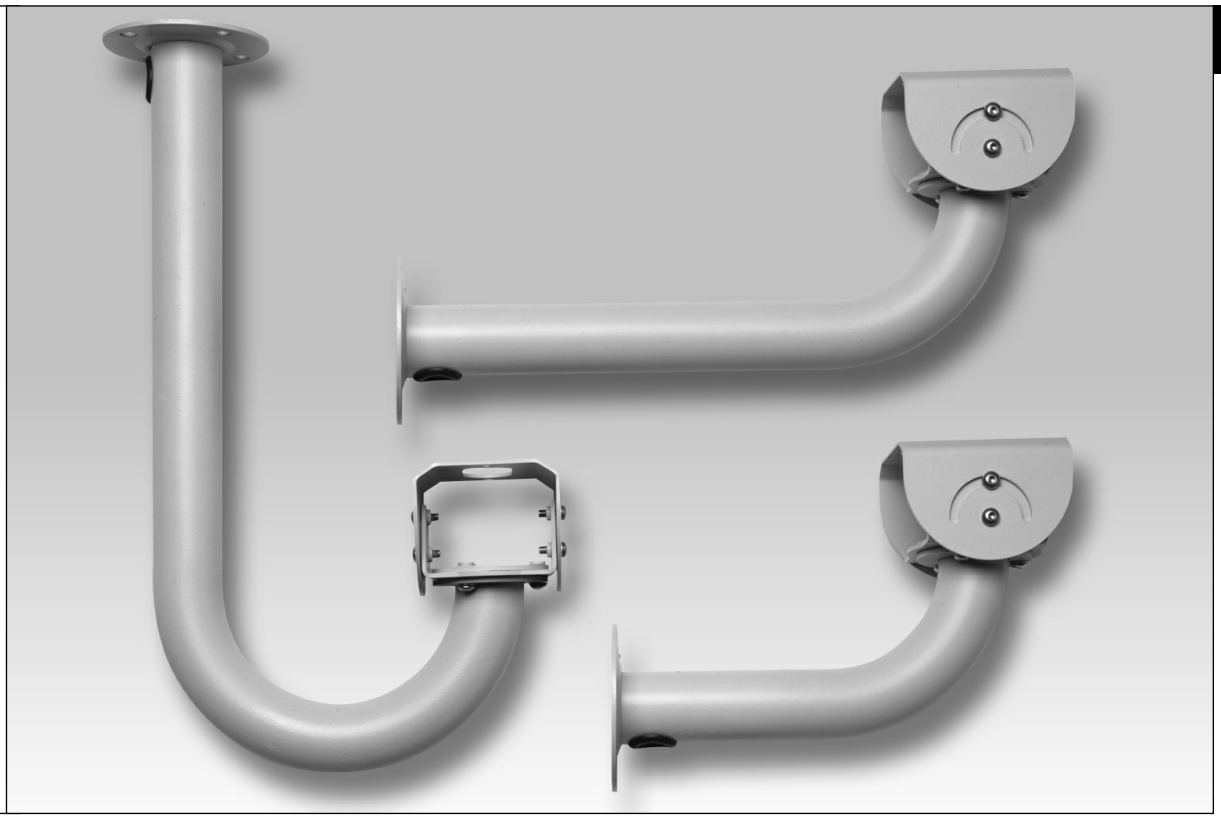
LTC 9215/00, LTC 9215/00S, LTC 9219/01
Indoor/Outdoor Feed-through Mounts

Installation Instructions

Eng



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SAFETY PRECAUTIONS

The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

SECURITE

Le point d'exclamation à l'intérieur d'un triangle équilatéral avertit l'utilisateur de la présence d'instructions importantes d'utilisation et de maintenance dans la documentation accompagnant l'appareil.

SICHERHEITSVORKENHRUNGEN

Das Ausrufezeichen in dem gleichseitigen Dreieck ist dazu da, den Benutzer auf wich-tige Inbetriebnahme- und Instandhaltungs-vorschriften hinzuweisen, die dem Gerät in Form einer Broschüre beigelegt sind.

PRECAUCIONES DE SEGURIDAD

El símbolo de exclamación dentro de un triángulo equilátero, se muestra con el objetivo de alertar al ususario de que instrucciones de operación y mantenimiento importantes acompañan al equipo.

1 UNPACKING

Unpack carefully. This is mechanical equipment and should be handled with care.

Check for the following items:

- Verify the unit model number.
- Instructions for Use.

If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper. If any items are missing, notify your Philips Communication, Security & Imaging, Inc. Sales Representative or Customer Service Representative. The shipping carton is the safest container in which the unit may be transported. Save it for possible future use.

2 SERVICE

If the unit ever needs repair service, the customer should contact the nearest Philips Communication, Security & Imaging, Inc. Service Center for authorization to return and shipping instructions.

Service Centers
U.S.A. & Canada: 800-366-2283
Mexico & Central America: 52-5-564-2726
Europe & Middle East: 011-32-1-440-0711
South America: 54-11-4956-0837
Asia Pacific Region: 011-65-481-4422

3 DESCRIPTION

LTC 9215/00 30-cm (12-in), LTC 9215/00S 18-cm (7-in), and LTC 9219/01 40-cm (15-in) Feed-through Mounts.

This indoor/outdoor mounting equipment is designed for fixed camera or camera housing installations up to 9 kg (20 lb) rated load. These models are made of lightweight aluminum and feature welded construction, providing an extremely rigid camera mount. The LTC 9215/00S has been designed specifically for the LTC 9480 series housings, while the LTC 9215/00 and LTC 9219/01 can be used with the LTC 9480, LTC 9483, and LTC 9488 series camera housings. All mounts come fully assembled.

4 INSTALLATION

1. Determine a secure wall mounting location.

   ⚠ **WARNING: All mounts are designed to support a load only in a vertical direction. Mounts MUST be positioned as shown under SPECIFICATIONS.**

2. ⚠ **Cautions:**
   a. For a secure installation, use four 8-mm (5/16-in) diameter fasteners (not included). Use stainless steel or zinc plated fasteners.
   b. If bolts are used, they should extend through the mounting surface and be secured with flat washers, lock washers, and nuts on the opposite side. Each bolt must have a minimum pull-out strength of 200 kg (450 lb).
   c. If studs are used, they should be anchored in concrete or welded to a steel backer plate. Each stud must have a minimum pull out strength of 200 kg (450 lb).
   d. If the wall mount is attached to wood or to a blind structure (with no access to the rear), each fastener must have a minimum pull-out strength of at least 200 kg (450 lb).
3. Locate the four holes or stud locations using the flange as a template (four holes equally spaced on a 69.9-mm (2-3/4-in bolt circle).
4. Feed wires through the large hole in the flange or through the slot on the surface where the camera housing mounts.
5. Install the mount using bolts or studs at least 8-mm (5/16-in) in diameter.
6. To mount the camera or camera housing:
   a. Mount camera with a 1/4-20 bolt and lock washer (not furnished) in the center hole of the adjustable head.
   b. Mount housings with three 1/4-20 bolts and lock washers (not furnished).
   c. Lock mount head in position by using the supplied 1/8-inch long-arm hex wrench to tighten screws.

For additional information or to speak to a representative, please contact the Philips Communication, Security & Imaging location nearest you:

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Europe & Middle East: 31 40 278 1222
Asia Pacific Region: 65 350 1859

or visit our Web site at www.philipscsi.com.

5 SPECIFICATIONS

5.1 LTC 9215/00 30-cm (12-in) Indoor/Outdoor Feed-through Mount

Maximum Load: 9 kg (20 lb).
Mounting Head: Adjustable. 360° pan, 180° tilt.
Finish: Dark mushroom.
Approx. Weight: 0.4 kg (0.9 lb).
Accessory for LTC 9215/00: LTC 9213/00 Pole Mount Adapter.

WARNING: All mounts must be mounted as shown.

5.2 LTC 9215/00S 18-cm (7-in) Indoor/Outdoor Feed-through Mount

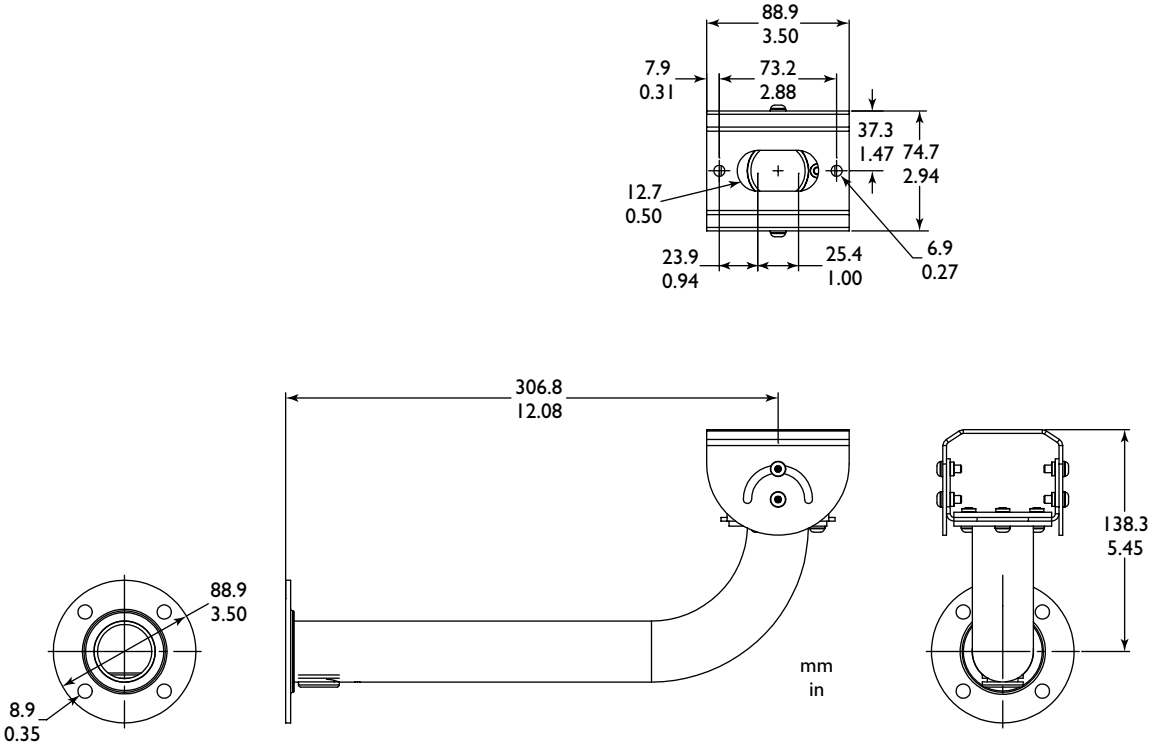
Maximum Load: 9 kg (20 lb).
Mounting Head: Adjustable. 360° pan, 180° tilt.
Finish: Dark mushroom.
Approx. Weight: 0.3 kg (0.7 lb).
Accessory for LTC 9215/00S: LTC 9213/00 Pole Mount Adapter.

WARNING: All mounts must be mounted as shown.

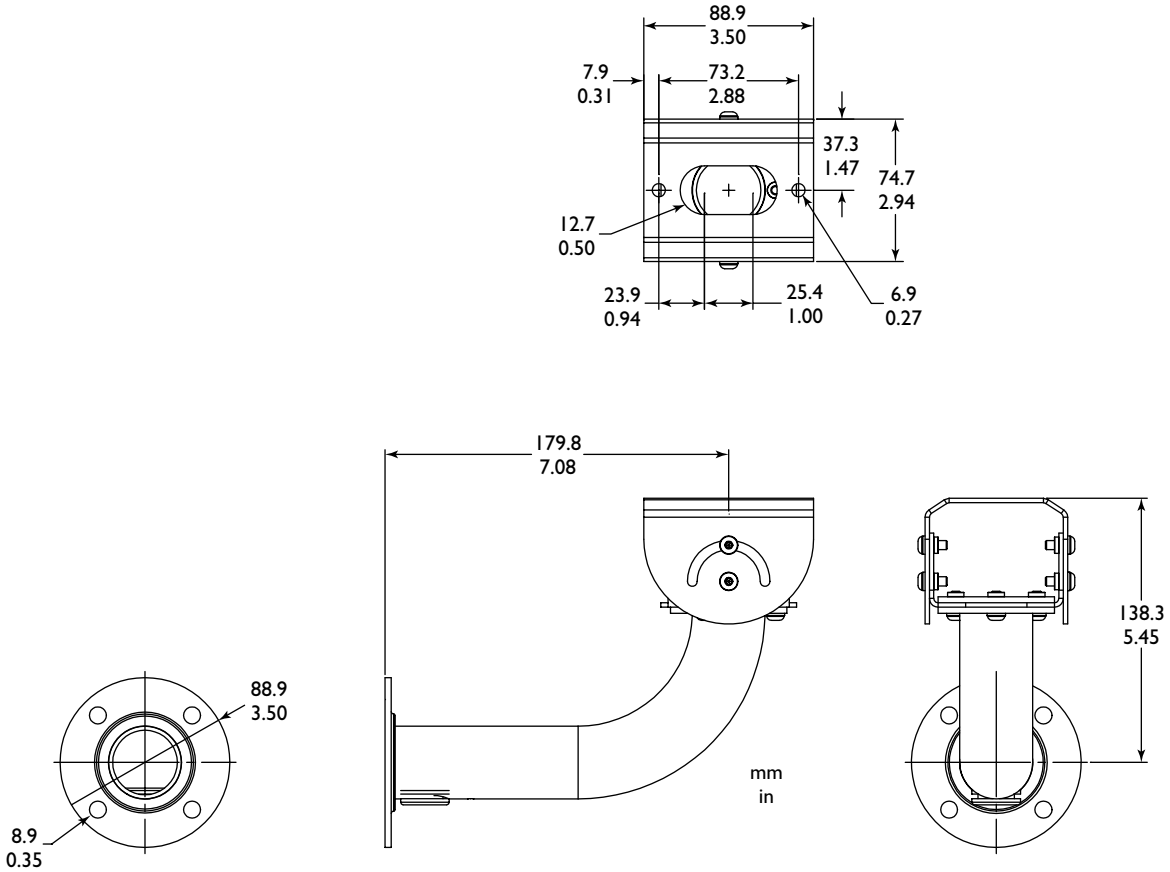
5.3 LTC 9219/01 40-cm (15-in) Indoor/Outdoor Feed-through J-mount

Maximum Load: 9 kg (20 lb).
Mounting Head: Adjustable. 360° pan, 180° tilt.
Finish: Dark mushroom.
Approx. Weight: 0.55 kg (1.2 lb).

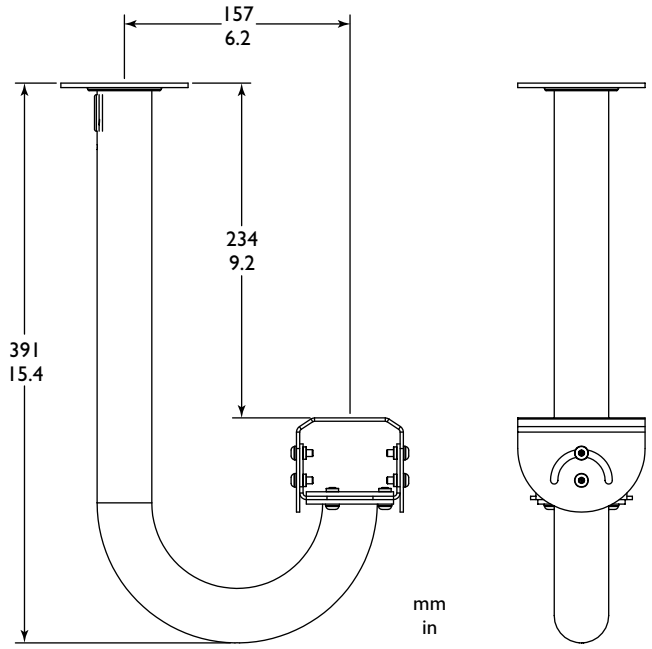
WARNING: All mounts must be mounted as shown.



LTC 9215/00 Feed-through Mount



LTC 9215/00S Feed-through Mount



LTC 9219/01 Feed-through J-mount

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LTC 9483/50C,
LTC 9488/50C Housings

Installation Instructions

Eng

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IMPORTANT SAFEGUARDS

1. Read Instructions - All the safety and operating instructions should be read before the unit is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the unit and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug the unit from the outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Accessories - Do not place this unit on an unstable stand, tripod, bracket, or mount. The unit may fall, causing serious injury to a person and serious damage to the unit. Use only with a stand, tripod, bracket, or mount recommended by the manufacturer or sold with the product. Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.

   An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
8. Ventilation - Openings in the enclosure, if any, are provided for ventilation, to ensure reliable operation of the unit, and to protect it from overheating. These openings must not be blocked or covered. This unit should not be placed in a built-in installation unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
9. Power Sources - This unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply you plan to use, consult your appliance dealer or local power company. For units intended to operate from battery power or other sources, refer to the operating instructions.
10. Grounding or Polarization - This unit may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
    Alternately, this unit may be equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
11. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
12. Power Lines - An outdoor system should not be located in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outdoor system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. U.S.A. models only - refer to the National Electrical Code Article 820 regarding installation of CATV systems.
13. Overloading - Do not overload outlets and extension cords as this can result in a risk of fire or electric shock.
14. Object and Liquid Entry - Never push objects of any kind into this unit through openings, as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.
15. Servicing - Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
16. Damage Requiring Service - Unplug the unit from the outlet and refer servicing to qualified service personnel under the following conditions:
    a. When the power supply cord or plug is damaged.
    b. If liquid has been spilled or objects have fallen into the unit.
    c. If the unit has been exposed to rain or water.
    d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
    e. If the unit has been dropped or the cabinet has been damaged.
    f. When the unit exhibits a distinct change in performance--this indicates a need for service.
17. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
18. Safety Check - Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.
19. Coax Grounding - If an outside cable system is connected to the unit, be sure the cable system is grounded. U.S.A. models only--Section 810 of the National Electrical Code, ANSI/NFPA No.70-1981, provides information with respect to proper grounding of the mount and supporting structure, grounding of the coax to a discharge unit, size of grounding conductors, location of discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
20. Lightning - For added protection of this unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the unit due to lightning and power line surges.

For additional information or to speak to a representative, please contact the Philips Communication, Security & Imaging location nearest you:

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Europe & Middle East: 31 40 278 1222
Asia Pacific Region: 65 350 1859

or visit our Web site at www.philipscsi.com.

SAFETY PRECAUTIONS

CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This label may appear on the bottom of the unit due to space limitations.

The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

SECURITE

DANGER: POUR ÉVITER TOUT RISQUE D'ÉLECTROCUTION, NE PAS OUVRIR LE BOÎTIER. IL N'Y A PAS DE PIÈCES REMPLAÇABLES À L'INTÉRIEUR. POUR TOUTE RÉVISION, S'ADRESSER À UN TECHNICIEN SPÉCIALISÉ.

En raison de limitation de place, cette étiquette peut être placée sur le dessous de l'appareil.

L'éclair fléché dans un triangle équilatéral, avertit l'utilisateur de la présence d'une "tension dangereuse" non isolée à l'intérieur de l'appareil et d'une valeur suffisante pour constituer un risque d'électrocution.

Le point d'exclamation contenu dans un triangle équilatéral, avertit l'utilisateur de la présence, dans la documentation qui accompagne l'appareil, de consignes d'utilisation et de maintenance importantes.

SICHERHEITSVORKEHRUNGEN

VORSICHT: UM EINEN ELEKTRISCHEN SCHLAG ZU VERMEIDEN, ABDECKUNG NICHT ENTFERNEN. WARTUNGEN ALLER ART QUALIFIZIERTEM PERSONAL ÜBERLASSEN.

Aus Platzgründen kann diese Warnung auf der Unterseite des Gerätes angebracht sein.

Das Blitzsymbol im gleichseitigen Dreieck soll den Benutzer auf nicht isolierte "Hochspannung" im Gehäuse aufmerksam machen, die eventuell stark genug ist, um einen elektrischen Schlag zu verursachen.

Das Ausrufezeichen im gleichseitigen Dreieck soll den Benutzer auf wichtige Bedienungs- und Wartungsanleitungen in der dem Gerät beigefügten Literatur aufmerksam machen.

PRECAUCIONES DE SEGURIDAD

PRECAUCION: PARA REDUCIR EL RIESGO DE CHOQUE ELÉCTRICO, FAVOR NO ABRIR LA CUBIERTA. ESTE EQUIPO NO CONSTA DE PIEZAS O PARTES QUE REQUIEREN SERVICIO O MANTENIMIENTO. PARA REPARACIONES FAVOR REFERIRSE A UN TÉCNICO CALIFICADO.

Debido a limitaciones de espacio, esta etiqueta puede aparecer en la parte inferior de la unidad.

El símbolo representado por un relámpago con punta de flecha dentro de un triángulo equilátero, se muestra con el objetivo de alertar al usuario que existen "voltages peligrosos" sin aislamiento, dentro de la cubierta de la unidad. Dichos voltages pueden ser de tal magnitud que constituyen un riesgo de choque eléctrico a personas.

El símbolo de exclamación dentro de un triángulo equilátero, se muestra con el objetivo de alertar al ususario de que instrucciones de operación y mantenimiento importantes acompañan al equipo.

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1 UNPACKING

Unpack carefully. This is mechanical equipment and should be handled with care.

Check for the following:

- Housing (with correct model number).
- Hardware Kit - LTC 9483/50C & LTC 9488/50C:
  - 1 1/4-20 × 3/8-in button head screw.
  - 2 1/4-20 × 1/2-in button head screw.
  - 1 Connector plug, 4-pin female Amphenol 16T3109-001.
  - 1 Connector, 15-pin female Ampenol C016 10e0140021 (LTC 9488/50C only).
  - 9 Female socket pins (LTC 9488/50C only).
  - 2 1/4-in spring washers.
  - 1 Spacer block.
  - 2 2.0 × 10 mm screws.

If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper. If any items are missing, notify your Philips Communication, Security & Imaging Sales Representative or Customer Service Representive.

The shipping carton is the safest container in which the unit may be transported. Save it for possible future use.

2 ACCESSORIES

2.1 Sunshields

Provide protection from the direct rays of sun and promote cooling to reduce internal housing temperatures. Strongly recommended for housing to be used outdoors.

LTC 9083/00: For LTC 9483 Series Housings.
LTC 9088/00: For LTC 9488 Series Housings.

2.2 Tamperproof Kit

Contains tamper resistant screws and bit key to tamperproof up to five housings.

LTC 9080/00: For all LTC 9480 Series Housings.

3 SERVICE

If the unit ever needs repair service or parts, the customer should contact Philips Communication, Security & Imaging Service Center for authorization to return and shipping instructions.

4 CARE AND MAINTENANCE

Regularly scheduled maintenance will help prolong the operation life of this unit. Clean the viewing window as needed with a mild, nonabrasive detergent in water and a soft cloth.

5 DESCRIPTION

The LTC 948x Series Housings are smart, stylized housings for indoor and outdoor use. These housings meet customers' demands for an attractive housing that is both cost competitive and easy to install. They are available in three sizes to fit a wide range of cameras and lenses.

6 INSTALLATION

This installation should be made by qualified service personnel and conform to the National Electrical Code and applicable local codes.

6.1 Model Designation

Model No.	Preinstalled Heater	Voltage/ Power V/W	Use with Camera Models with These Voltage Ratings
LTC 9483/50C	Heater	230/23	230
LTC 9488/50C	Heater	230/40	230

Note: The heater operates at 50/60 Hz.

6.2 Maximum Camera/Lens Size

LTC 9483/50C: 68 W x 54 H x 267 L mm (2.68 x 2.1 x 10.5 in)
LTC 9488/50C: 71 W x 71 H x 356 L mm (2.8 x 2.8 x 14.0 in)

6.3 Tools Required

- Small flat blade screwdriver.
- Phillips screwdriver (P2).
- Adjustable wrench.
- Wire cutter/stripper/crimper tool.
- 5/32-in (or 4 mm) hex wrench.

6.4 Cable Requirements

Video Transmission (Coaxial)

Cable Type: RG-59/U for runs < 300 m (1000 ft).
RG-11/U for runs < 600 m (2000 ft).

Cable Size:	Outside diameter between 4.6 mm (0.181-in) - 7.9 mm (0.312-in).
Cable Shape:	Round.
Shield:	≥ 93% Braided Copper Shield.
Center Conductor:	Stranded Copper Center.
DC Resistance:	≤ 15 Ohms/1000 (RG-59/U). ≤ 6 Ohms/1000 (RG-11/U).
Cable Impedence:	75 Ohm.
Agency Rating:	UL, CE.
Environmental:	Outdoor rated.
Temperature Rating:	≥ 80 °C.
Sources:	Belden 9259. Belden 9238.

Input Power Cord - North American

Cable Type:	SJTOW-A rated.
Cable Size:	Outside diameter between 4.3 mm (0.170 in) - 11.9 mm (0.470 in).
Cable Shape:	Round.
Conductors:	3 conductor version and 2 conductor version.
Agency Rating:	UL/C.S.A., UL VW-1.
Environmental:	Outdoor rated.
Temperature Rating:	105 °C.
Voltage Rating:	300 V.
Sources:	Belden 19506. Belden 19509. Northwire 573939.

Input Power Cord - European

Cable Type:	H05RN-F3G0.75 and H05RN-F3G1.00.
Cable Size:	Outside diameter between 9.5 mm (0.374 in)–13 mm (0.512 in).
Cable Shape:	Round.
Conductors:	3 conductor version and 2 conductor version.
Agency Rating:	VDE.
Environmental:	Outdoor rated.
Sources:	Olflex 1600252. Olflex 1600253.

Lens Control Cable

Cable Type:	Jacketed Multiconductor Cable.
Cable Size:	Outside diameter between 11 mm (0.433 in)–13 mm (0.512 in).
Cable Shape:	Round.
Shield:	Overall shielding.
Conductors:	35 to 24 AWG.
No. of Conductors:	14 total, 8 used.
Conductor Insulation:	Color coded.
Sources:	Amphenol-Tuchel: 14-pin +PE.

6.5 Housing Mounting

1. Use the two 1/4-20 x 0.50-inch screws and 1/4-in spring washers provided in the hardware kit to mount the housing to a mount or a pan/tilt. The spring washers must be used for the screws to thread properly.

2. The outer most set of 1/4-20 threaded holes are for mounting to feed-through mounts and the inner most 1/4-20 holes are for mounting to all other mounts and pan/tilts.

6.6 Cover Removal

1. Loosen the top two screws on the rear of the housing. These screws are captive and will not come out all the way. **Do not** remove the bottom two screws. See **Figure 1**.

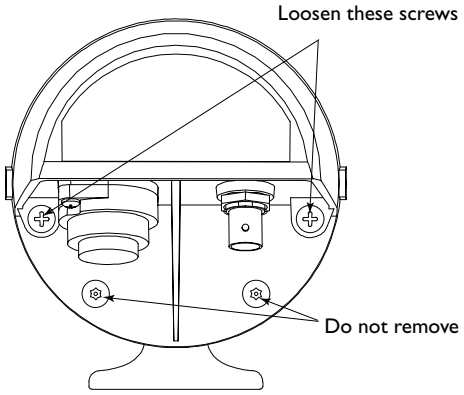


Figure 1: Loosening Captive Screws

2. Grasp the housing's front cap and pull forward. Do not squeeze the cover itself. This will make it difficult to slide off the cover. See **Figure 2**.

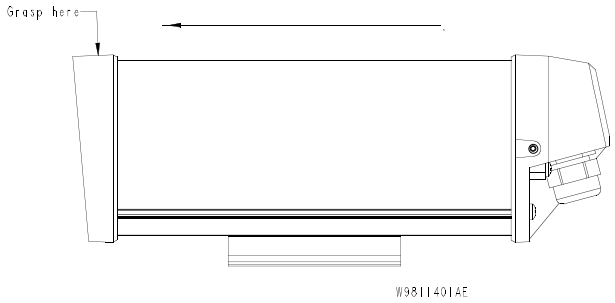


Figure 2: Removing the Cover

3. The cover is attached to the base. Allow the cover to dangle from the base.

6.7 Camera/Lens Installation

1. Loosen the two screws holding the camera bracket to the base. It is not necessary to remove them completely. See **Figure 3**.

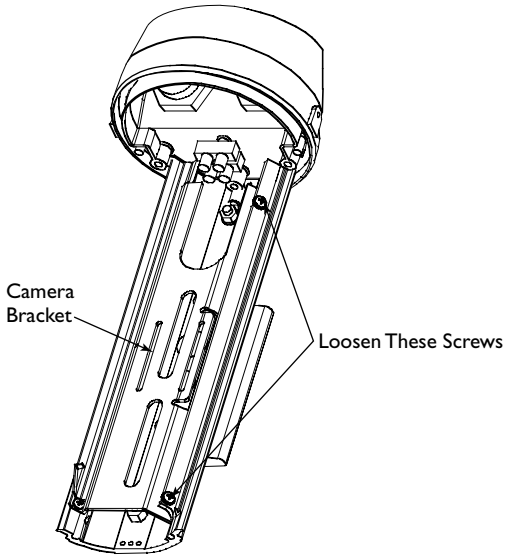


Figure 3: Removing the Camera Bracket

2. Remove the camera bracket from the base.

Mounting fixed lens cameras in LTC 9483 Series Housings

3a. Attach the lens to the camera.

3b. Use the 1/4-20 x 3/8-inch screw to mount the camera to the camera bracket. The lens should extend approximately 6 mm (0.25-in) from the front of the camera bracket. See **Figure 4**.

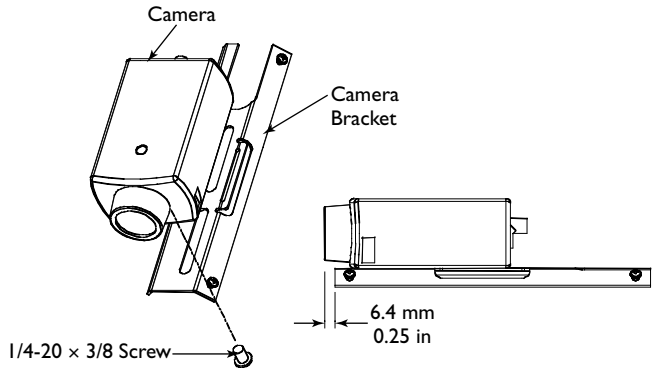


Figure 4: Attaching the Camera

Mounting LTC 0330/x1, LTC 0350/x1, LTC 0430/x1, and LTC 0450/x1 fixed lens cameras in LTC 9480, LTC 9483 Series Housings

3c. Remove the mounting block from the camera by removing the two small screws that attach the foot to the camera. Use a small straight blade screw driver to remove these screws. See **Figure 5**.

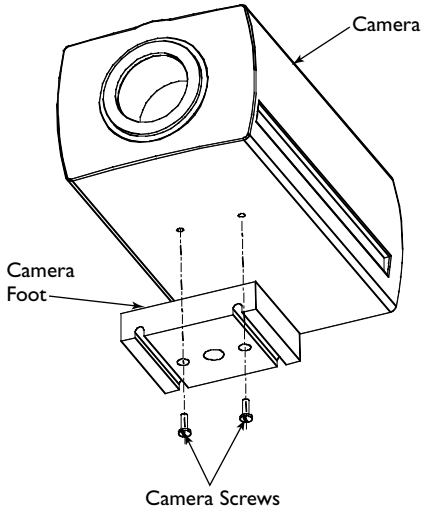


Figure 5: Removing the Camera Foot

3d. Attach the lens to the camera.

3e. Mount the camera to the camera bracket using the two screws removed from the foot. Use the slots in the camera bracket to accomplish this. See **Figure 6**.

Note: The hardware kit contains a spacer block. This spacer block can be used to raise the camera off the camera bracket. Simply place the spacer block between the camera and the camera bracket and through the screws. This is only necessary in very few instances when the lens may hit the camera bracket.

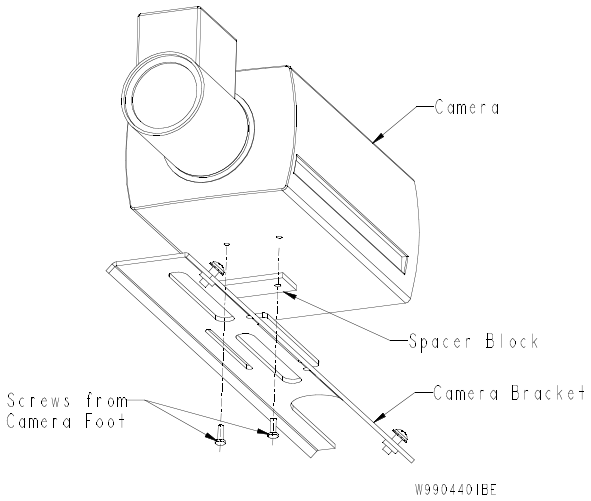


Figure 6: Mounting the Camera

6.8 Camera/Lens Wiring

WARNING: Only use the cables specified under "INSTALLATION, Cable Requirements" for wiring of all cameras and lenses.

6.8.1 Power Connections: LTC 9483/50C, LTC 9488/50C

1. Cut the camera power cord, leaving enough cable to allow connection to the terminal block. Strip no less than 6 mm (0.25 in) and no more than 8 mm (0.31 in) of insulation away from the wire. Connect these wires to the left side or the top side of the terminal block. See **Figure** 7.

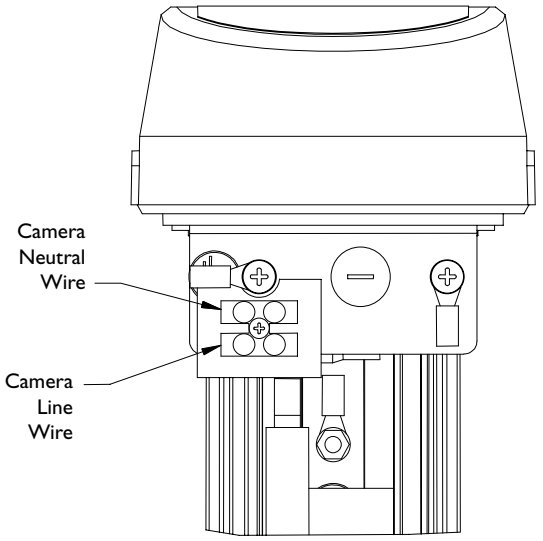
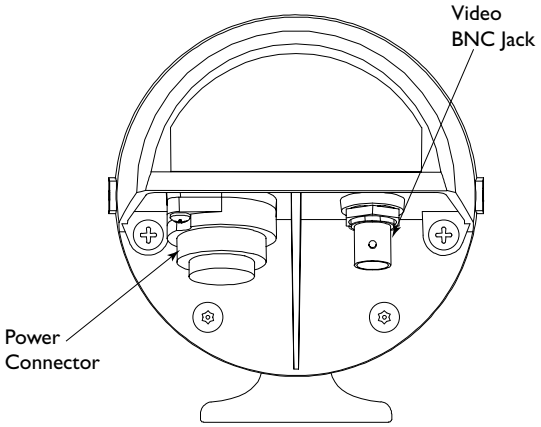


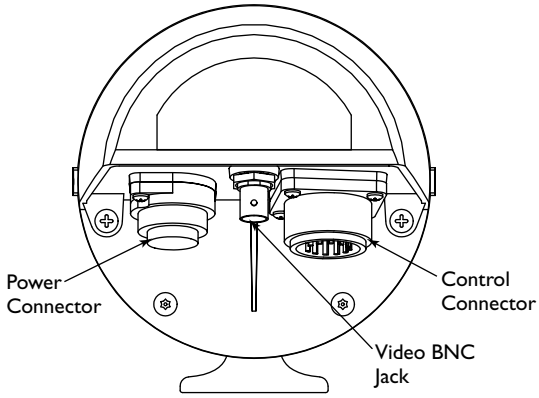
Figure 7: Camera Power Connection

2. The terminal block provided on /X0 units accepts wire ranging from 20 to 14 AWG or 1.5 mm^2. When using larger wire sizes, splice to a smaller wire at the terminal block end.

3. All electrical connections are made through the power connector. See **Figure 8**.



Electrical Connections: LTC 9483/50C



Electrical and Control Connections: LTC 9488/50C

Figure 8: Electrical Connections

4. Connect power input cable to the provided connector plug. Refer to wiring diagrams for pin connections. The following table corresponds to **Figure 9: Power Connector**.

230 Vac, 50 Hz Enclosures

Pin	Function	Color[1]
1	AC Neutral	Blue
2	AC Hotl	Brown
3	NC2t[2]	--
4	Ground	Green/Yellow

1. Color codes indicate harness wire color.
2. NC - No connection, Do Not Use.

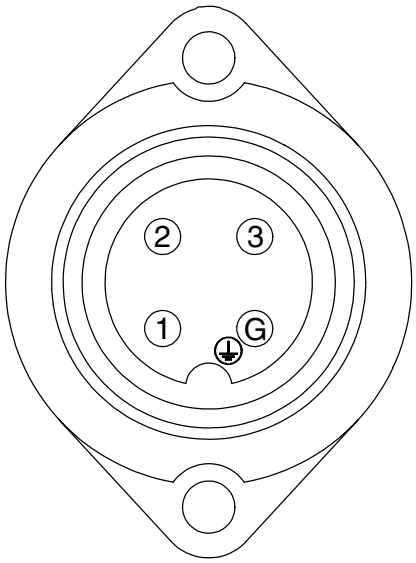


Figure 9 Power Connector
Mating Connector: Amphenol-Tuchel
16T3109001 (Female) Philips #3152525-900.

6.8.2 Control Connections: LTC 9488/50C only

1. Inside housing, mate lens connector to female connector located inside of housing. Internal connector is prewired to the external 14-pin Amphenol Connector.

2. External Wiring: Control wires 35 to 24 AWG should be used. Strip 2.5–3 mm of insulation away from wire. Next, insert each stripped wire into provided socket and crimp to secure wire.

3. Insert pin sockets into the black receptacles located on the provided female connector (see the following below for correct wiring configuration) and mate to the male connector located on the back of the housing (see **Figure 8**). Then, utilize supplied parts to protect wires.

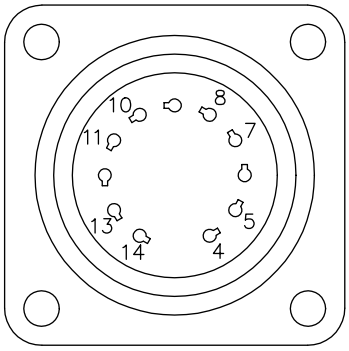


Figure 10 Control Connector
Mating Connector: Amphenol-Tuchel
C016 10E014 0021 Philips #3153502-900.

The following table refers to **Figure 10**.

LTC 9488/50C only:

Pin	Function	Color[1]
4	Zoom Wipeer	Pink
5	Pot Return	Gray
6	NC[2]	--
7	Focus, Wiper	Light Blue
8	Pot Supply	Orange
9	NC	--
10	Focus - Far	Blue
11	Focus - Near	White
12	NC	--
13	Zoom - Wide	Green
14	Zoom - Tele	Red

1. Color codes indicate harness wire color.
2. NC - No connection, Do Not Use.

6.9 Video Coax Connection

WARNING: Only use the cables specified under "INSTALLATION, Cable Requirements" for wiring of the video coax connection.

1. A video connection is provided on the rear of the housing. Connect video cable to housing using a BNC connector.

2. An internal video connection is provided. Simply connect the BNC cable to the camera.

6.10 Camera/Lens Adjustment

1. Verify camera and lens operation before final assembly of the cradle into the housing. Adjust the camera focus and iris as necessary. See individual camera instructions.

6.11 Final Assembly

1. Reinstall the cover. Align the bottom of the cover ribs with the top of the base. Slide the cover onto the base. Make sure the seal is not folded over or torn. Use silicone grease to lubricate the seals if necessary. **See Figure 11**.

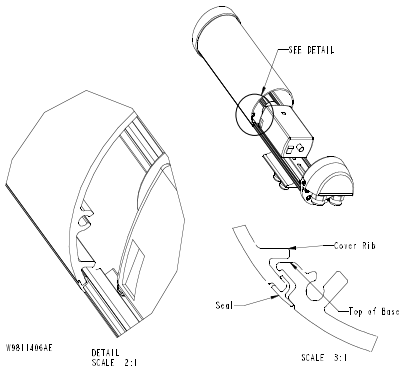


Figure 11: Reinstalling the Cover

2. As the cover nears the rear cap, make sure the captive screws in the back are not blocking the cover from engaging into the rear cap.

3. Screw the two rear captive screws into the housing.

6.12 Fuse Replacement

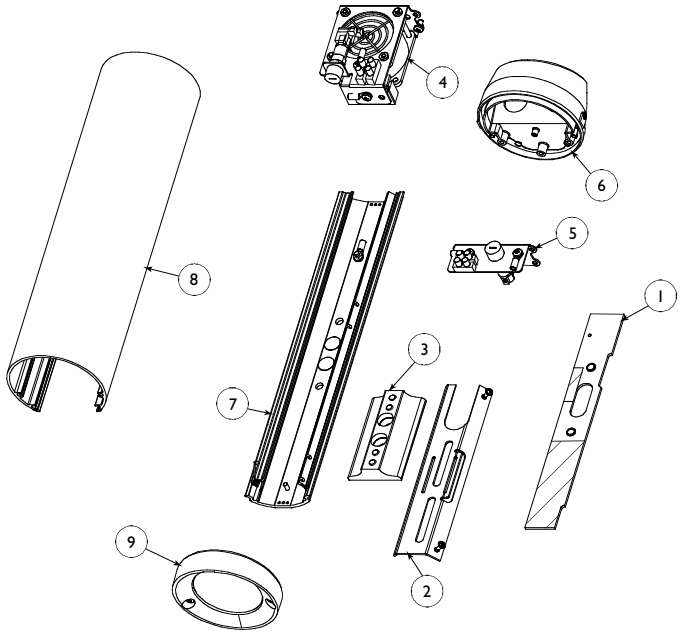
1. To replace a fuse, take a flat blade screw driver and twist the top of the fuseholder counter clockwise about a/of a turn. The fuse is spring loaded so it will eject.

2. Replace the fuse with a fuse that has the same current rating. The fuse is a 5x20 mm slow blow cartridge type fuse. Recommend using Littelfuse series 218.

7 EXPLODED VIEW

7.1 Parts List

Ref No.	Drawing Number	Part Description
1	315 3369 020	24 VAC Heater Kit (LTC 9483)
1	315 3369 050	230 VAC Heater Kit (LTC 9483)
1	315 3369 060	115 VAC Heater Kit (LTC 9483)
1	315 3368 020	24 VAC Heater Kit (LTC 9488)
1	315 3368 050	230 VAC Heater Kit (LTC 9488)
1	315 3368 060	115 VAC Heater Kit (LTC 9488)
2	315 3142 001	Camera Bracket Kit (LTC 9483)
2	315 3142 002	Camera Bracket Kit (LTC 9488)
3	315 3143 001	Foot Kit
4	315 3144 020	24 VAC Fan Kit
4	315 3144 050	230 VAC Fan Kit
4	315 3144 060	115 VAC Fan Kit
5	315 3145 001	Wiring Bracket Kit
6	315 3146 001	Rearcap Kit for LTC 9483 Models
6	315 3146 003	Rearcap Kit for LTC 9488 Models
7	315 3147 001	Base Kit for LTC 9480/00
7	315 3147 002	Base Kit for LTC 9483 Models
7	315 3147 003	Base Kit for LTC 9488 Models
8	315 3148 001	Cover Kit for LTC 9480/00
8	315 3148 002	Cover Kit for LTC 9483 Models
8	315 3148 003	Cover Kit for LTC 9488 Models
9	315 3149 001	Frontcap Kit for LTC 9483 Models
9	315 3149 003	Frontcap Kit for LTC 9488 Models
-	315 3062 001	Hardware Kit for LTC 9483 Models
-	315 3062 003	Hardware Kit for LTC 9488 Models
6	315 3046 004	Recap Kit for LTC 9483/50C Models
-	315 3062 004	Hardware Kit for LTC 9483/50C Models
6	315 3046 005	RearCap for LTC 9488/50C
-	315 3062 006	Hardware Kit for LTC 9488/50C



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LTC 9483/50C
Outdoor Housings

- **For 1/4-inch, 1/3-inch, and 1/2-inch CCD Cameras**
- **Feed-through Wiring Option**
- **Aluminum and Advanced Polymer Construction**
- **Full Camera Accessibility**
- **Cost Competitive**
- **Multiple Accessories Available**
- **Connectable Wiring for Easy Installation**

The LTC 9483/50C Housings are smartly styled housings for indoor and outdoor use. These housings meet customers' demands for attractive housings that are both cost competitive and easy to install.

The design of these housings is unique. Removal of two captive screws is all that is necessary to slide off the cover and totally expose the camera and lens. This allows access to all camera and lens controls when the camera is in its mounted position.

Powering this housing is made easy using the 4-pin Amphenol connector located on the back of the housing.

A BNC connector is also mounted on the back for video connection. Wires can also be routed through liquid tight fittings on the bottom rear of the housing.

Feed-through mounts and J-mounts are available for these housings. The base of the housings permits mounting to pan/tilts, adjustable heads, and various wall mounts.

This sturdily constructed housing is available with a preinstalled heater. The heater maintains the internal temperature of the housing in cold temperature conditions.

SPECIFICATIONS

Electrical

Model No.	Preinstalled Heater[1]	Voltage/ Power V/W	Use with Camera Models with These Voltage Ratings
LTC 9483/50C	Heater	230/23	230

1. The heater operates at 50/60 Hz.

Mechanical

Maximum Camera and Lens: LTC 9483/50C: 68 W x 54 H x 267 L mm (2.68 x 2.1 x 10.5 in)[1].

1. With heater.

Cable Entry:
LTC 9483/50C: 4-pin Amphenol-Yuchel connector accepts cable diameters 8.0 mm to 9.5 mm (0.31 in to 0.38 in). Two bottom feed-through liquid tight fittings accept cable diameters from 4.6 mm to 7.9 mm (0.18 in to 0.31 in).

Window: 3 mm (0.12 in) thick UV-stabilized polycarbonate.

Housing Mounting: Four (4) available 1/4-20 tapped holes. Only one set of two are required for mounting.

Camera Mounting: Removable camera bracket. Mounted with two screws.

Construction: Aluminum cover, aluminum base, aluminum mounting foot, polycarbonate faceplate, glass reinforced polycarbonate end caps, neoprene gasket, ethylene propylene seal, and all stainless steel hardware.

Finish: Dark mushroom.

Dimensions: See drawing.

Weight: (approx.)
LTC 9483 Series: 1.8 kg (4 lb).

Environmental

Temperature: At external temperature of -40 °C to +50 °C (-40 °F to +122 °F) maintains internal temperatures between -20 °C and +55 °C (-4 °F to +131°F) with heater.

Salt Atmosphere: MIL-STD-810E, Method 509, Procedure 1.

Enclosure Protection: Designed to NEMA-3R, IP55.

Electromagnetic Compatibility

Safety:
UL, cUL
Designed to meet CE requirements.

Accessories

Sunshield: Provides protection from the direct rays of sun and promotes cooling to reduce internal housing temperatures. Strongly recommended for housing to be used outdoors.
LTC 9083/00: For LTC 9483 Series housings.

LTC 9080/00 Tamper Resistant Kit: Includes 10 screws and insertion tool to permit tamper resistance for five housings.

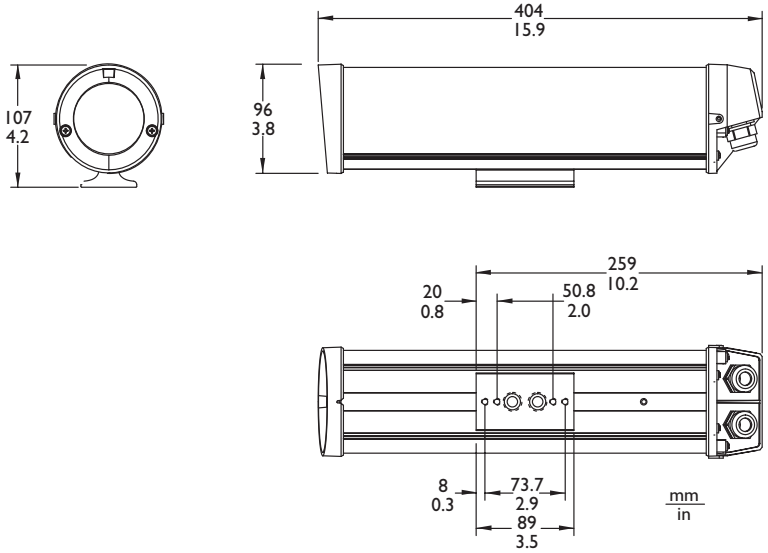
LTC 9215/00 Feed-through Mount: Attached to the foot of the housings allows wires to be fed-through the mount and into the foot of the housing.

LTC 9219/01 Feed-through J-Mount: Allows housing to be mounted from ceiling.

Suggested Applications:

Camera Model	LTC 9483 Lens
LTC 0140	Fixed/Vari-focal
LTC 0240	Fixed/Vari-focal
LTC 0330[1]	Fixed/Vari-focal
LTC 0350[1]	Fixed/Vari-focal
LTC 0430[1]	Fixed/Vari-focal
LTC 0450[1]	Fixed/Vari-focal

1. The camera mounting block must be removed.



LTC 9483 Series

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PHILIPS

Let's make things better.

LTC 9083/01, LTC 9083/01S
LTC 9084/01, LTC9088/01
Sunshields

Eng

Installation Instructions

Philips
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PHILIPS

1 DESCRIPTION

Provides protection from the direct rays of the sun and promotes cooling to reduce internal housing temperatures.

LTC 9083/01: For use with LTC 9483 Series Housings
LTC 9083/01S: For use with LTC 9480 Series Housings
LTC 9084/01: For use with LTC 9484 Series Housings
LTC 9088/01: For use with LTC 9488 Series Housings

Items Supplied:
LTC 9083/01, LTC 9083/01S, LTC 9084/01 & LTC 9088/01
Sunshield (1)
Hardware Kit (315 3169 003)
- Screws (2)
- Washers (2)
- Bushings (2)

2 INSTALLATION

2.1 Installing Sunshield

1. Place the sunshield over the housing and align the screw, washer, and bushing with the threads in the rear cap.
2. Insert the screws into the sunshield and screw them into the rear cap (see **Figure 1**).
3. Pivot the sunshield to cover the housing while lining up the top screw with the hole in the housing's front cap (see **Figure 2**).
4. Sunshield can then be adjusted forward to obtain additional front coverage.
5. Secure sunshield by tightening the top and the back two screws.

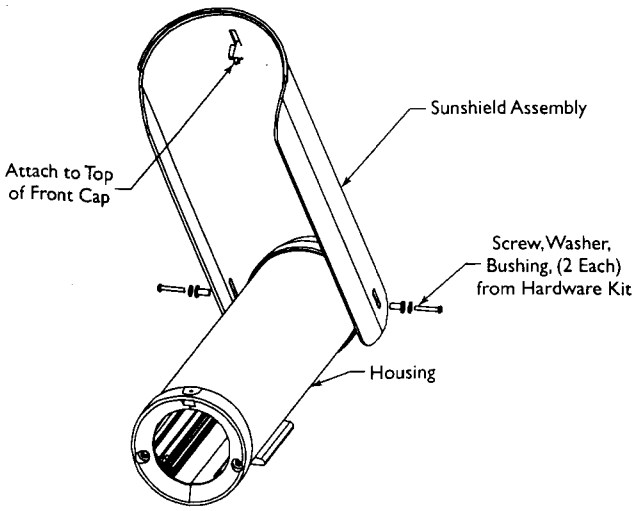

Figure 1 Installing Sunshield

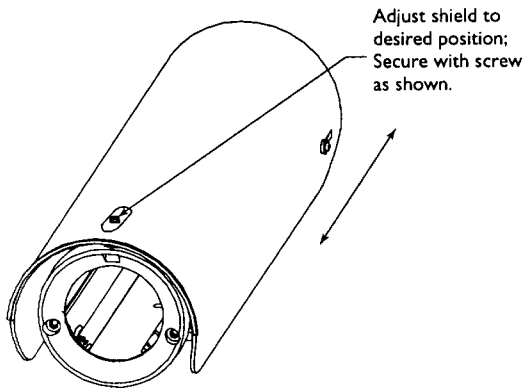

Figure 2 Installing Sunshield

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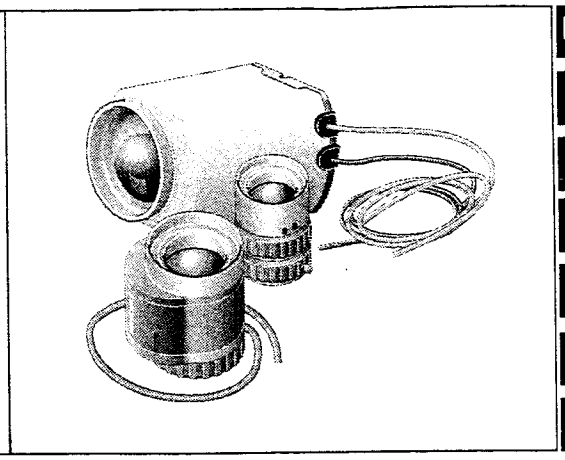
1/3 inch DC Iris Vari-Focal Lenses

Instructions for Use



Eng F D E NL I Tw

2.8-12mm, F1.4 **LTC 3364/40**

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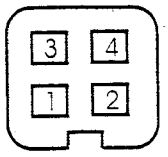
Connection



Viewed from solder side

1	Damping Coil -	Orange
2	Damping Coil +	Yellow
3	Driving Coil +	Red
4	Driving Coil -	Black

Safety

Warning: Do not use the lens to look at the sun. It may cause loss of sight.
Attention: Do not direct the lens into the sun. It may cause a fire.

DC-iris Vari-Focal lens

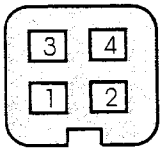
This DC-iris vari-focal lens has adjustable focus and zoom.

Mounting

- Screw the lens into the camera head until it completely stops.
- Turn the lens back to suit the set-up of the camera.
- Connect the lens cable to the camera.

E

Conexión



Vista desde el lado del soldador

1	Bobina de arnortiguamiento -	Naranja
2	Bobina de arnortiguamiento +	Amarillo
3	Bobina excitadora +	Rojo
4	Bobina excitadora -	Negro

Seguridad

Advertencia: No use la objetivo para mirar al sol. Puede causar la pérdida de la vista.
Atención: No deje que el sol se refleje en la objetivo. Puede causar un incendio.

Objetivo DC-iris vari-focal

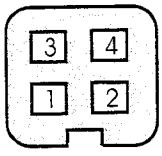
Esta objetivo DC-iris vari-focal tiene foco y zoom ajustables.

Montaje

- Atornille la objetivo al máximo en el cabezal de la cámara.
- Destornille el objetivo según al ajuste de la cámara.
- Conecte el cable de la objetivo a la cámara.

NL

Aansluiting



Gezien vanaf de soldeerzijde

1	Dempingsspoel -	Oranje
2	Dempingsspoel +	Geel
3	Stuurspoel +	Rood
4	Stuurspoel -	Zwart

Veiligheid

Waarschuwing: De lens niet gebruiken om naar de zon te kijken. Dit kan leiden tot verlies van het gezichtsvermogen.
Let op: De lens niet op de zon richten. Dit kan brand veroorzaken.

DC-iris vari-focuslens

De DC-iris vari-focuslens heeft een instelbare focus en zoom.

Montage

- Schroef de lens op de camera tot hij volledig stopt.
- Draai de lens zodanig terug dat hij aansluit op de instelling van de camera.
- Sluit de lenskabel aan op de camera.

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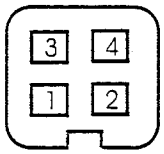
F

Connexion



Vue depuis le côté des soudures

1	Bobine d'amortissement -	Orange
2	Bobine d'amortissement +	Jaune
3	Bobine d'entraînement +	Rouge
4	Bobine d'entraînement -	Noir

Sécurité

Attention: N'utilisez pas l'objectif pour regarder le soleil. Ceci pourrait occasionner une cécité.
Attention: Ne dirigez pas l'objectif vers le soleil. Ceci pourrait occasionner un incendie.

Objectif à focale variable et diaphragme iris CC

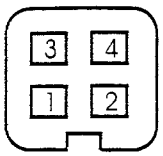
L' objectif à focale variable et diaphragme iris CC dispose d'un réglage de la profondeur et du grossissement.

Montage

- Visser l'objectif sur le corps de la caméra jusqu'à ce qu'il bute.
- Tournez l'objectif en sens inverse jusqu'à atteindre la position correspondant au réglage de la caméra.
- Raccordez le câble de l'objectif à la caméra.

D

Anschluß



Von der Lötseite aus betrachtet

1	Dämpferspule -	Orange
2	Dämpferspule +	Gelb
3	Antriesspule +	Rot
4	Antriesspule -	Schwarz

Sicherheit

Warnung: Mit diesem Objektiv nicht in die Sonne blicken. Erblindung kann die Folge sein.
Achtung: Das Objektiv nicht in die Sonne richten. Brandgefahr.

DC-iris Variofokalobjektiv

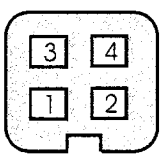
Dieses Variofokalobjektiv DC-iris verfügt über verstellbare Brennweite und Zoom.

Montage

- Das Objektiv in den Kamerakopf schrauben, bis es ganz fest sitzt.
- Das Objektiv entsprechend der Kamereinstellung zurückdrehen.
- Das Objektivkabel an die Kamera anschließen.

I

Collegamento



Vista dal lato saldatura

1	Bobina di smorzamento -	Arancio
2	Bobina di smorzamento +	Giallo
3	Bobina di comando +	Rosso
4	Bobina di comando -	Nero

Sisurezza

Pericolo: Non usare l'objettivo per guardare il sole. Può causare cecità.
Attenzione: Non puntare l'objettivo sul sole. Pericolo d'incendio.

Objettivo a focale variabile con diaframma DC

L'objettivo a focale variabile con diaframma DC è dotato di regolazione messa a fuoco e zoom.

Montaggio

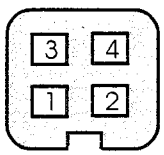
- Avvitare l'objettivo nella testa della telecamera fino al bioccaggio completo.
- ,Ruotare l'objettivo indietro per adattarlo alla disposizione della telecamera.
- Collegare il cavo dell'objettivo alla telecamera.

Tw

接線

從焊接面看：

1	抑制線圈 -	橙色
2	抑制線圈 +	黃色
3	驅動線圈 +	紅色
4	驅動線圈 -	黑色



安全事項

警示：不要用鏡頭當墨鏡去看太陽，以免損傷您的視力。
注意：不要將鏡頭正對著太陽，以免引起火災。

DC-iris 變焦鏡頭

這個 DC-iris 變焦鏡頭的焦距和遠近距離是可調的。

安裝

- 將鏡頭裝上攝影機，擰緊。
- 回轉鏡頭，使它與攝影機的設定相對應。
- 將鏡頭導線與攝影機連接。